Structured Cabling

Pre-Qualification Package











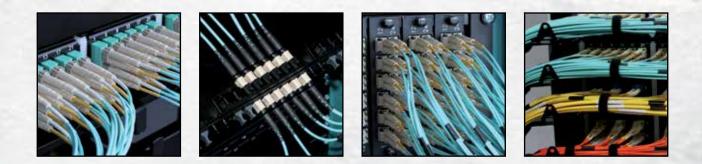
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Optronics

Structured Cabling Solutions Pre-Qualification Package

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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.

Optronics, has over 20 years experience in the fibre optic manufacturing industry. The Optronics range includes patchcords, 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 from distributors all over the world.

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 panels in necessary quantity.



Optronics Global HQ, Milton Keynes, UK

www.optronicsnet.com



ABOUT OPTRONICS



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 a registered company in England and has regional offices in each major continent in the world.



ABOUT OPTRONICS

A Sleeping Giant Awakes

For more than 15 years Optronics has been the vendor of choice for many recognised leaders in the optical connectivity field across all five continents - a truly global player!

At Optronics, we probably have the best engineering, design and manufacturing resource for optical connectivity solutions and enclosures in the world today. Our reputation for quality andreliabilitythroughnewproductdevelopmentisunderpinned with the knowledge that Optronics manufactured solutions are deployed at the heart of the world's telecommunications systems delivering Quality of Service levels which underpin the internet and ensure applications such as cloud computing are realised.

Whilst many within the industry recognise the strengths of Optronics, few end users or consultants within the structured cabling market even know the company exists.

"I feel we are under-selling ourselves in terms of brand value." - John Grillo, Chairman

Having originally established the business to design and manufacture a range of passive optical connectivity for the data communications and telecommunications markets, our desire to service and support our customers has taken us far beyond this original 'simple' mission.

Today, the Optronics engineering team are "recognised industry experts" and frequently represent the interests of the UK in defining the latest national and international communications equipment standards. From our headquarters in Milton Keynes, we not only offer our customers a 24 hour engineering and design capability through our extended teams in Asia but a leading logistics service to support our customers throughout the world using our regional centres.

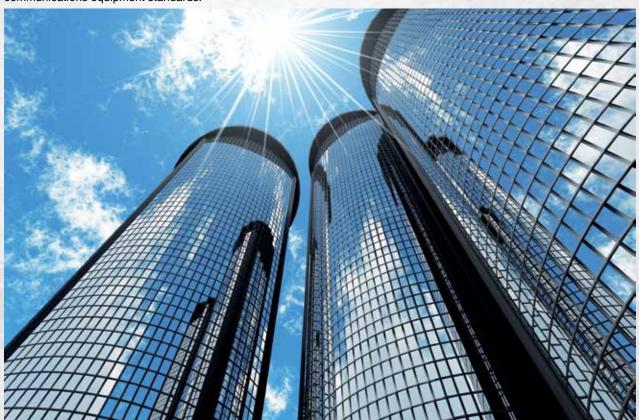
John Grillo continues:

Whilst we continue to win as a result of our abilities to work with and through our customers - this is not enough for Optronics! We are increasingly developing solutions for environments such as the Data Centre which need to be sold, not just supplied!"

To realise its full potential, Optronics has introduced the Optronics Cabling System which delivers a systemically designed high speed copper and optical network solution aimed at the most challenging environments.

The Optronics Cabling System has been developed to compete with the "best in class" solutions through engineers and marketers harnessing a wealth of acquired applications knowledge in the particular market space.

Clearly Optronics has no intention of turning its back on its current customer base but also believes it can offer our current and future customers an even greater service and experience if we were to adopt a parallel approach to the market that will ultimately release the full brand potential of the business.



ABOUT OPTRONICS

"We deliver customer satisfaction and long term relationship through our various services at compelling price points".

Our Mission

Our professional team deploys the most advanced service solutions that provide insight into the needs and mission of the clients' infrastructure through our technical support team that prides itself on professional pre and post sales support, project management and technical training to fulfil the needs of its customers. We continuously strive towards the provision of cost-effective Networking and Communication solutions using state-of-the art technologies and methodologies, in line with our customers' strategic direction

Our Promise

Pro-Active

Wide Range

Aid clients to secure new and existing customers through designing and manufacturing bespoke panels in necessary quantity. Extensive range of high quality fibre management solutions.

Innovation Through Purpose

Specific proprietary designs are developed by our engineering department.

No Fuss

We can design, manufacture and deliver distribution boxes fully-loaded.

"Every accomplishment starts with the decision to try"

Quality Policy

We, the employees of Optronics, are committed to total customer satisfaction as our first and foremost priority because we understand that our customers are the only reason for our commercial existence. In order for us to achieve this objective, we understand that:

- > Commitment to quality is an integral part of our everyday duties
- > Quality is achieved through the commitment and active participation of all of us
- > Quality is critical to our business success

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Koullis Azas – Senior Vice President January 2012

Pre-Qualification Package

OPTRONICS IN THE UK

Optronics UK - Milton Keynes

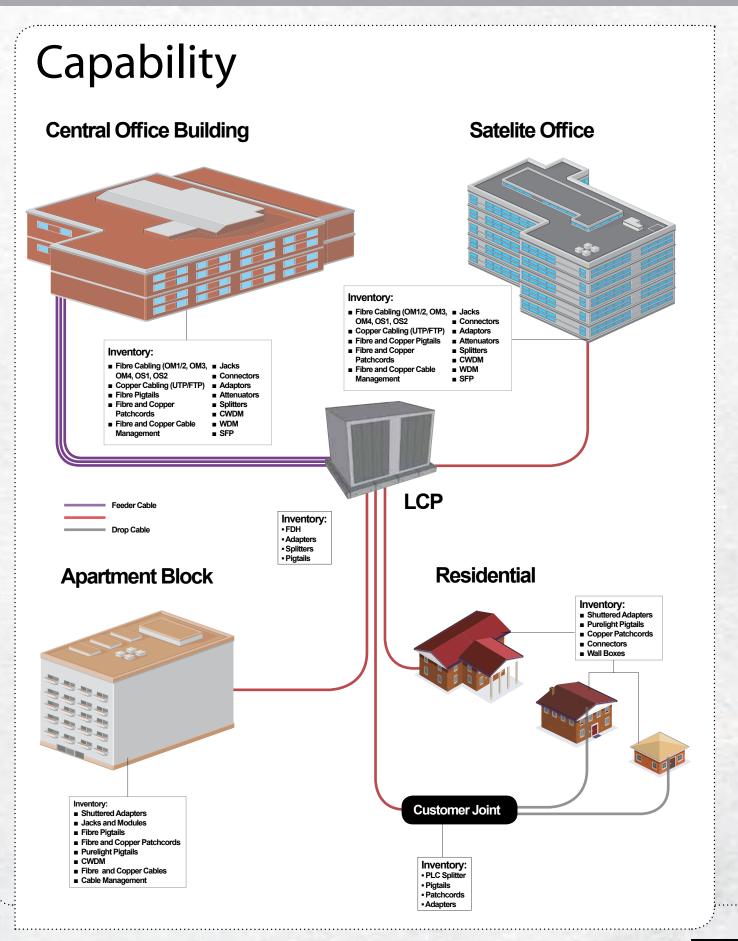


Optronics UK - Haverhill





APPLICATION SOLUTIONS



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STANDARDS

Standards

Specifications



Third Party Testing



Underwriters Laboratories



Intertek Group





American National Standards Institute



International Electrotechnical Commission



Engineering Technologies Association

Compliance and Accreditation



Restrictions of Hazardous Substances



International Standard of Organization

A Quality Company

- > Optronics has an aggressive quality policy aiming to continuously improve products & processes
- > ISO 9001 certified (expected ISO 14000)
- > Over 95% on-time delivery and over 98% yield performance

Statement of Compliance

We are happy to provide our "Statement of Compliance" document on request. This documents our cable's compliance with the full range of IEC specification for fibre optic cable.

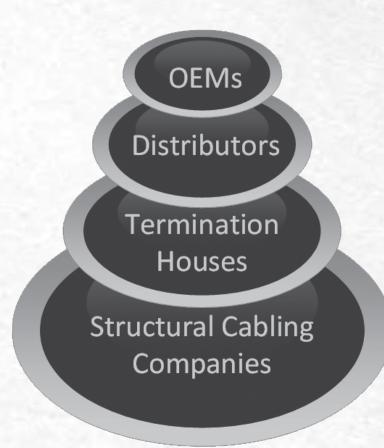


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OUR CUSTOMERS

Our Customers Include



We Offer Our Customers

[Choice] Independent range, unmatched by any other company. [Variety] Dedicated to variety and providing bespoke solutions, tailored to customers needs. [Uniqueness] No one installation or application is the same as another. [Quality] Aggressive quality control and testing policy for products and manufacturing.

PRODUCT PORTFOLIO

Connectors and Adaptors

A full range of high quality connectors suitable for a wide range of applications.

- > Complete range of connector types supported
- > Compliance with all major IEC and TIA specifications
- > Connectors feature Zirconia Ceramic Ferrules with high end PC and UPC finishing
- > Adaptors utilise high precision alignment sleeves
- > Low insertion loss and back reflection
- > RoHS , REACH & SvHC compliant
- > Field installable connectors available
- > Hybrid adaptors available
- Suitable for LANS, WANS, Telecomms Networks, Distribution Networks, Testing and Laboratory applications



A full range of high quality patchcords and pigtails suitable for a wide range of applications.

- > Complete range of connector types supported
- OM1/2, OM3, OM4, OS1, OS2, G.652D, G657A and G.657A/B
- All standard lengths available in stock, non standard lengths by request
- > Compliance with all major IEC and TIA specifications
- Patchcords are constructed with 2.8mm or 2mm zip cable
- > Low insertion loss and high return loss
- > Pigtails feature Easystrip cable
- > RoHS , REACH & SvHC compliant
- > Individual test sheet and unique product identification number for traceability
- Our cable assemblies are designed and manufactured in our ISO9001 certified facilities

<u>OPTRONICS</u>

PRODUCT PORTFOLIO

Fibre Optic Cables

A full range of high quality Fibre Optic Cables suitable for a wide range of applications.

- Applications include Patchcords and Pigtails, LAN, Horizontal Distribution, Backbone, Riser, Rack to Rack links, Equipment rooms, Intrabuilding links, Campus and Long Distance WANs
- OM1/2 (9/125), OM1 (62.5/125), OM2 (50/125), OM3 (50/125), OM4 (50/125) Specifications supported
- Tight Buffered, Loose Tube, Breakout and Steel Tape Armoured constructions available
- > LSZH and PVC jacket types
- > 2 144 colour coded fibres
- > Cut to Length service
- > Project support available

Internal Management

A full range of high quality internal cable management components suitable for a wide range of applications.

- Range includes Fixed, Sliding and Modular Patch Panels. Tamperproof, Slimline and Lockable Wall Boxes, Plus, Wall and Floor Standing Cabinets
- > Full range of connectors and adaptors supported
- In-house CAD design allows us to create innovative designs that fufill the specific and unique challenges facing the installer
- Manufactured to the highest quality with heavy guage metals and robust finishing
- > Project support and bespoke designs are available

Drop Cables

ITU-T G.652D, ITU-T G.657A1 & ITU-T G.657A2 all dielectric FTTH drop cable consisting of 1 to 4, 250µm individually coloured optical fibres with FRP strength members and LSZH jacket.

External Management

A full range of high quality external cable management components suitable for a wide range of applications.

- Range includes Tamper-Proof, Slimline and Termination Boxes, plus, Dome, Box and Inline Style Enclosures
- Compliance with all relevant IP, IEC, BS, RoHS, REACH and SvHC specifications where applicable
- All components accept a full range of connector, adaptor and cable types

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Pre-Terminated Solutions



PRODUCT PORTFOLIO

High Density Solution

Demand for greater processing power, efficient data centre design and high-speed internet access means choosing the right cabling infrastructure is essential.

The Optronics MTP solution provides a high density, high performance, robust, modular solution, for fast installation of enterprise data centre and other high fibre count cabling implementation.

Applications

- > Fibre channel SAN
- > Parallel optics
- > Infiniband
- > Data Centre infrastructure
- > Optical backplane connections

Features

- > Optical switch and routers
- > Emerging 40 and 100Gbs Ethernet
- > High density- from 4 up to 144 fibres in single cable
- > Available with OM1, OM2, OM3, OM4 and OS1/OS2 fibre
- > Compact LSZH cable standard, OFNP cable also available
- > Modular solutions
- > Low loss MTP Elite® versions
- > Wide range of configuration options

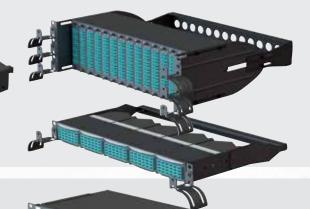
Benefits

- > Tailored solutions to meet project specifications
- > Lower installation and ownership costs
- > Rapid installation
- > No link / termination errors
- > No cable or connector waste
- > High fibre density
- > Reduced on site testing required









PRODUCT PORTFOLIO

Copper Cabling Solution

Cables

- > Available in CAT3, CAT5e, CAT6 and CAT6_A
- > U/UTP, F/UTP, U/FTP and S/FTP constructions
- > LSZH and PVC Jacket Types
- All cables exceed the minimum specified performance for the relevant category and support all application classes defined in the relevant ISO/IEC/ASI/TIA specifications
- > Conform to RoHS, SvHC and REACH
- > ETL and UL listed where applicable



Patch Panels

- > Available in CAT3, CAT5e, CAT6 and CAT6
- > 24 and 48 Port, 1U and 2, 19" rackable
- > All panels comply with the requirements of the relevent IEC specification and support all applictaions designed for the relevent Class / Category
- > Conform to RoHS, SvHC and REACH
- > Individual Port Identification
- > Universal wiring blocks for easy identification
- > ETL and UL listed where applicable



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PRODUCT PORTFOLIO

Copper Cabling Solution

Jacks and Plastics

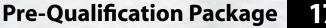
- > Available in CAT5e, CAT6 and CAT6,
- > All jacks comply with the requirements of the relevent IEC specification and support all applictaions designed for the relevent Class / Category
- > Conform to RoHS, SvHC and REACH
- > Many styles including Tool Free, Keystone, Low Profile and Shuttered available in Screened and Unscreened construction
- > Universal colour coded wiring blocks for easy identification

Patchcords

- > Available in CAT3, CAT5e, CAT6 and CAT6
- > Electrically compliant beyond 100MHz
- > LSZH or PVC sheathed cable

- > Low profile moulded strain relief boots
- > Integral anti-snag latch as standard
- > 8 standard colours
- > 1m, 2m, 3m, 5m, 10m, 15m, and 20m
- > Individually bagged with traceability information
- > All Class and Category standards compliant
- > RoHS, REACH, SVHC compliant



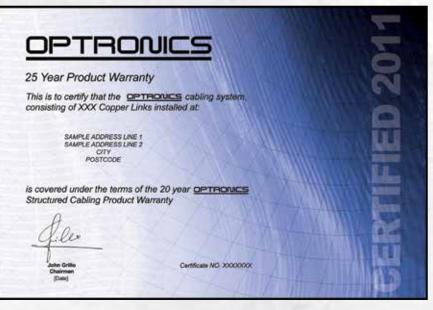


WARRANTY AND INSTALLER PROGRAMS

Optronics Warranty Programme

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 the components are installed and tested by an OPTRONICS approved partner then the installed link will support 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. Achieved 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 deliver the applications for which they were designed for a life-time.

Optronics Authorised Installer

All OptronicsPLUS guarantees require the installation to be carried out by an OptronicsPLUS Authorised Installer. These organizations are accredited only after successfully demonstrating a high level of capability, resources, technical expertise and investment in staff training and test equipment.

Limitations of the Warranty

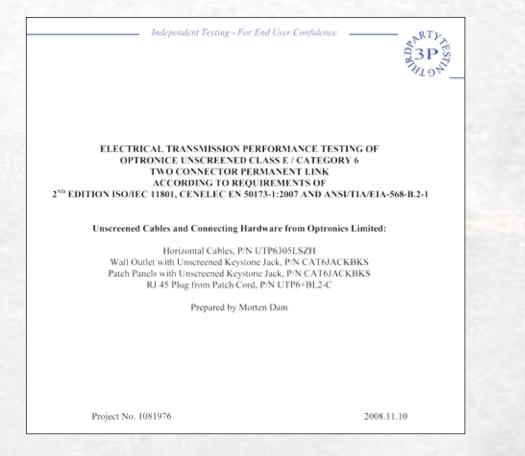
This Warranty only covers the Installation as defined in the submitted dossier and specification. Any extensions or modifications to the Installation must be submitted to Optronics following the procedure listed in our warranty documentation. On review and acceptance, a new Certificate and Schedule will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

Becoming an Authorised Installer:

- Certification as an Authorised Installer must happen prior to project award Any proposal that cannot be s
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- 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
- > All Authorised Installer certification will be time-bound for a period of 2-years where upon a review will be undertaken and recertification issued at the sole discretion of Optronics

CERTIFICATION

3P Certificates RARTL RARTI 0TH **Attestation of Conformity Attestation of Conformity** ISO/IEC, EN & TIA/EIA Unscreened ISO/IEC, EN & TIA/EIA Unscreened Class E / Category 6 Two Connector Class E / Category 6 **Permanent Link Two Connector Permanent Link Optronics Ltd. Optronics** Ltd. **Davy** Avenue **Davy Avenue** Milton Keynes MK5 8ND, UK Milton Keynes MK5 8ND, UK Attestation of Conformity No. 108583 Attestation of Conformity No. 110727 This type of Class E / Category 6 antercented into connector permanent link has been nested by JP Third Party Texting and complies with Class E Permanent link requirements of 2¹⁶ Edition (SOVIC) (100) and COSELEC EN 50173-12007, and Category 6 permanent link requirements of ANEPHAEIA-666-82-1. The Attestation of Conferently in stull for the actually issued permanent link samples in T166A designation and constitution of the ingo Cables from Optronics: Haripontal Cable, Onalification Status: PN UTP6305LS2H Manufacturer Ferified P.N. UTPH/05EEEEE with PFC Shouth Manufacturer Fertfiel P.N. CATO-ACK/88/EE horing PCB Marking LE000314 B2 P.N. CATO-UTP20PCB horing PCB Marking C6 REV: B Manufacturer Fertfiel Cable from Oppronics: Horizontal Cable, Qualification Status: Reystone Jack PN CATGMER, Conn. Hardw. from Optronics: Keystone Jack Conn. Hardw. from Optronics: P.N.P.ANEL24KE3STONE Manufacturer Ferified Patch panel, Qualification States PN UTP6+PL-C Manufacturer Ferified Patch Cord from Optronics: Hoersholm, 17th December 2010 Monufacturer Ferified Hoersholm, 10th November 2008 Hoersholm, 17th December 2010 Hoersholm, 10th November 2008 Part Villing Part Villing Ole hanch Ole handhan Ole Lambertsen Test Responsible Poul Villien Coordinating Manager Ole Lambertsen Test Responsible Poul Villien Coordinating Manager



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CERTIFICATION

Intertek

ETL Certificates



0103 US Roue 11 Contend New York 13045 USA Phone Number (800) 345-3651 Ray Number (800) 755-8607 Web, www.ViteTate.com

Intertek

ETL Verified Certificate of Conformance Number: 100085133CRT-001f On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out.

Applicant Optonics Limited Deny Avenue, Knowhill Miton Keynes, MKS BND, United Kingdom

Manufacturer: Optionics Limited Davy Avenus, Knowthill Milton Keynes, MKS BND, Linited Kingdom

Contact: Mr. Neil Payne Verification/Report Number: 3104631C/91-003 Product Tested: Model(s) and or Brand Name: U/UTP CATSE 4P LSZH 5658

4 pair: 24 AWG, UTP, LSOH, Non-Plenum Riser, Honzontal (solid) Cable Standard(s)/Specification: ANSI/TIA-568-C.2 Category 5e with the applicable electrical transmission

Contact Mr. Nell Payne

Jacket marking shall include: ETL Verified to ANS//TIA-568-C 2 Category Se

Continuing compliance to this specification is monitored through production testing: quarterly inspections by Interfek at the production facility and random sample testing.

Date Verified: 4/6/2010 Approved By



This verification supersedes all previous verifications with the noted Verification/Report number(s) dated before this verification notice.

NOTE This verification is part of the full test report(s) and should be read in conjunction with it.

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Manufacturer: Optionics Limited Devy Avenue: Knowhill Mitori Keynes: MKS BND, United Kingdom Optionics Limited Davy Avenue, Knowthill Milton Keynes, MKS BND, Linsed Kingdom

Contact: Mr. Neil Payne: Contact Mr. Nell Payne Verification/Report Number: 3104631C/RT-004 Product Tested: 4 par. 24 AWG, UTP, LSOH, Non-Plenum Riser, Honzontal (solid) Cable Model(s) and or Brand Name: U/UTP CATSE #PLS2H 11801 Standard(s)/Specification: ISO/IEC 11801 Category Se with the applicable electrical transmission Jacket marking shall include: ETL Verified to ISD/EC 11801 Category Se

Continuing compliance to this specification is monitored through production testing: quarterly inspections by Interfek at the production facility and random sample testing.

Date Verified: 4/6/2010

Intertek

Applicant

Approved By

Antine Polloter

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2033 US Route 11 Contend: New York: 13045 USA Prone Number: (800) 345-3857 Ray Number: (807) 758-8677 Web: Jewa Vietnak Cont

Intertek

ETL Verified Certificate of Conformance Number: 100085133CRT-001d

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out.

Manufacturer. Optronics Limited Deny Avenue: Knowhill Milton Keynes: MKS 8ND - United Kingdom

Contact: Mr. Neil Payne

4 pair, 24 AWG, UTP, CMR, Non-Plenum Riser, Horizontal (solid) Cable

Model(s) and or Brand Name: U/UTP CATSE 4P PVC 11801 ISD/IEC 11801 Category Se with the applicable electrical transmission

Jacket marking shall include: ETL Venfed to (SO/EC 1180) Category 5e

Continuing compliance to this specification is monitored through production testing, quarterly inspections by Interlek all the production facility and random sample testing.

Antine Pelloter

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Kathy Heath Approved By

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ETL Verified Certificate of Conformance Number: 100085133CRT-001a

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Contact Mr. Neil Pa	yne:		Contact Mr Nei Payne			
Verification/Report Number:		3154387091-003				
Product Tested		4 par. 23 AWG, UTP, CMR, Non-Plenum Riser, Horizontal (solid) Cable				
Model(s) and or Brand Name:		U/UTP CAT6 4P PVC 5688				
Standard(s)/Specification:		ANSLTIK-568-C 2 Category 6 with the applicable electrical transmission characteristics				
Jacket marking shall include:		ETL Vented to ANSI/TIA-568-C 2 Category 6				
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Antine Pelloter Program Coordinator Antique Patiebox Endonee

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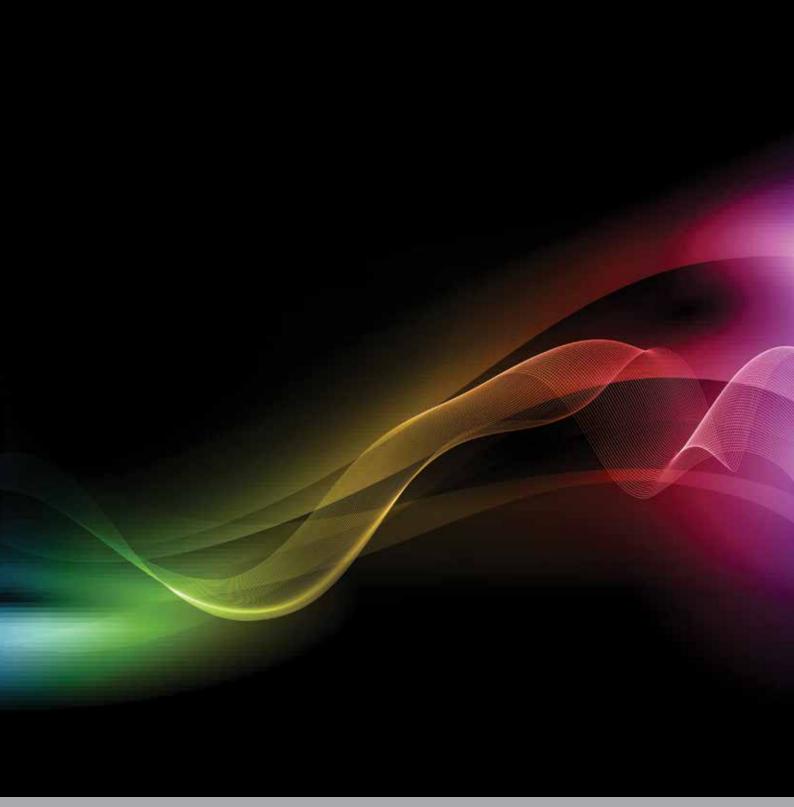
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