lamatel

Your connection to the world



About Us

Who is Lamatel?

Lamatel is a corporation registered under the Quebec Law of Canada. The company has been established since 1999 as an expert consultant in major telecommunication fields: from radio communication to VoIP, networking, security and surveillance. As of October 2011, Lamatel expanded its scope of work to become a distributor of various telecommunication products: from networking, to VoIP, security and surveillance products. Lama Inc is constantly looking for expansion opportunities in its turf of business and is deploying new marketing strategies to accomplish established short and long term goals. Following a steady growth, Lamatel upgraded their profile to become a manufacturer of high quality products designed in Canada.

Our Mission Statement

Lamatel's mission is to be the partner of choice for the world's leading service providers, governments and enterprises. Lamatel's goal is to help their clients create, build and maintain the most innovative, reliable and cost-effective communications networks to meet their customers' growing needs through the rapid deployment of new communication services. Lamatel works around your business. The management team strives to make technology integrate seamlessly with your business becoming the catalyst for the growth of your business. As your technology partner, when your business grows ours will grow with you. Therefore, we will work hand in hand with you to support your growth. Lamatel will be your one-stop shop for all your telecommunication needs.

Why work with Lamatel?

• Local Canadian brand

Lamatel is a Canadian brand, the products offered are high tier quality goods.

• Stock availability

Lamatel keeps stock of their products to make sure they are deliverable to customers at the shortest delay possible.

• Reliable & immediate delivery

When the product is in stock, goods can be delivered within 24 hours. Customers are welcome to visit our premises and pick-up their equipment hassle free. Most our orders are processed on the same day.

• High quality & best value

Lamatel products are manufactured in China at the best factories available. Our products compete with renowned brands such as Shneider, Belden,

• Expert advice

Lamatel has a great team of experts that act as consultants, at the service of all customers.

• Safe and secure transactions

Online shopping is available to allow 24 hrs accessibility to our products.

Discounted bulk pricing

Customers can skip a couple mark-ups and save on their purchases by buying directly from the manufacturer

• Excellent customer service

We care for our customers!

• Rebranding & OEM

Customers can rebrand Lamatel products according to their image.

Our Culture & core values



Innovation

We owe it to our customers, our industry and our corporate heritage to continue to exhibit security, advanced communication means and affordable high quality products. We strive to deliver state of the art technology and high excellent genuine service.

Customer Commitment

Customer satisfaction will remain our main focus. We will tirelessly assist our clients with utmost care and consideration to their needs and requirements. We insure the quality of our products and work efficiently to process and deliver goods on time through our short lead time response strategy and flexibility in personalizing service according to each customer's needs.

Sustained Growth

We have a responsibility towards our business partners and to one another to ensure that Lama Inc. delivers consistent financial performance that allows for ongoing investment and continued growth. We are keen on expanding our network of resellers with a promise to provide full support and combined marketing efforts to increase brand awareness about the benefits of the products carried in our portfolio.

Collaboration

Sharing information and ideas always makes us faster, smarter and stronger. We focus on finding ways to work with, not against, one another to seek solutions. The diversity of our team collaborates to a broader variety of fruitful thoughts and point views in response to a widely multicultural Canadian society.

Seeing the World through GREEN-tinted Glasses

As manufacturers, we understand the impact our production has on the environment and have decided to use recyclable packaging material in order to control and reduce the negative impact on our surrounding. We care for our planet and we know that you do as well!

Shop Online!

Open an account on Lamatel website and benefit from our online shopping cart to order your supplies and ensure on-time delivery for your projects.

Order Lamatel your supplies from the comfort of your office, 24 hrs a day 7 days a week!



www.lamatel.com



Lamatel PoE switches factsheet



What is PoE?

Power over Ethernet is a technology which enables to connect network devices through ethernet cable. This technology is applicable for wide range of network products such as Access Points, Routers, IP cameras, modems, switches, embedded computers or other network products.

PoE switches provides both data and power connections in one cable, so equipment doesn't require a separate cable for each need. For equipment that does not already have a power or data connection, PoE can be attractive when the power demand is modest. For example, PoE is useful for IP telephones, wireless access points, cameras with pan tilt and zoom (PTZ), and remote Ethernet switches. Lamatel PoE switches can provide long cable runs e.g. 100 m (330 ft) and deliver up to 15 W per port.

Depending on the application, some of the advantages with PoE over other technologies may be:

> ► Inexpensive cabling carries both data and power ▶ Power to equipment can be remotely cycled

► Fast data rate



Every installation is unique, Lamatel sells components individually so you can build your network with no wasted parts!

«Passive POE keeps costs low, reduces heat dissipation and allows for the most compact size possible.»



Lamatel PoE Switches

LT107E-POE

Single Port PoE Injector

Lamatel's NEW Single Port PoE Injector LT107E-POE transfers regular Ethernet signal into standard PoE signal. Providing support for IEEE802.3af, this device allows you to enjoy a stable and reliable PoE connectivity on your devices.

Power: AC100V~AC240V@50/60Hz

Power Rate: ≤15.4.

Transmission Media: Cat5/5e/6 cable

Standard: IEEE802.3af.

Protection: Wide voltage AC Input. Strong lightning

protection, ESD, anti-interference.

Structure: Support for tablet and wallet installation. 2 sets of PoE injector can connect with the bayonet.

Quick & Simple Installation and Troubleshooting

Included in the box:

1 single Port POE Injector and 1 AC Power Line

Important Notice: Turn OFF signal source and the device's power as installation with power ON may result unit: in damaging the device.

Installation steps:

Use a network cable to connect POE IP camera with POE OUT port on your Single Port POE Injector.

Use another network cable to connect DATA IN of Single Port The maximum output consumption of the POE Injector with Ethernet switch/other device not supporting POE.

Your installation is now ready for Power up: Connect AC Power Line.





Four easy steps to troubleshoot the

Confirm if the installation steps above are completed correctly.

Confirm the RJ45 cable used conforms to the EIA/TIA568A or 568B industry standards.

PoE port cannot exceed 15.4W Replace the failing device with a new one to test if the POE injector is defective.



LT807E-POE

8 Ports PoE Switch



Quick & Simple Installation and Troubleshooting

Included in the box:

8 Ports PoE Ethernet Switch DC48V/2A Power Adapter AC Power Cable User Manual

Important Notice: Turn OFF signal source and the device's power as installation with power ON may result in damaging the device.

Installation steps:

Connect the POE camera to 8ch PoE Switch Port 1-8 with 8 cables.

Connect the 8ch PoE switch's UPLINK Port to NVR or PC device with one cable.

Connect to the device's power.

Make sure the network is available and and turn on the device.

Lamatel LT807E-POE switch provides 9 high speed Ethernet ports: 1 uplink port and 8 x 10base-T port that supports PoE. It supports IEEE802.3af standards and can provide 15.4w DC power to 100m. This switch is

convenient for CCTV surveillance systems and conferencing systems.

Power: AC100V~AC240V@50/60Hz

Power Rate: ≤15.4 per port

Transmission Media: Cat5/5e/6 cable

Standard: IEEE802.3af.

Protection: Wide voltage AC Input. Strong lightning

protection, ESD, anti-interference.

Structure: Support for tablet and wallet installation. 2 sets of PoE injector can connect with the bayonet.



Four easy steps to troubleshoot the unit:

Confirm if the installation steps above are completed correctly

Confirm the RJ45 cable used conforms to the EIA/TIA568A or 568B industry standards.

The maximum output consumption per PoE port cannot exceed 15.4W.



LT1017ER

Fast Ethernet Repeater



Lamatel's Fast Ethernet Repeater LT1017ER uses advanced network cable drive technology to extend Ethernet signal from 100Mbps to 350Mbps. It can be powered through PoE port or DC/AC 12v-24v power adapter.

3x 100Mbps Ethernet ports

Transmission media: Cat5e/6 Cable Standard: IEEE802.3af, IEEE802.3at

Supports MIT-B1 Distance: 350Mbps

Quick installation and troubleshooting steps

Included in the box:

Repeater MIT Hangers AC Adapter User Guide

Important Notice: use standard Cat5e/6 cable to get the longest transmission distance.

Installation steps:

Use a network cable to connect fast Ethernet repeater's POE IN port with Ethernet switch;

Use 2 network cables to connect 2 IP cameras with fast Confirm if the installation steps above are com-Ethernet repeater's Local and Long Distance port re-

Check if the installation is correct and power on the device.

Make sure the network is accessible.

Complete wiring installation before powering on all devices.



Four easy troubelshooting steps:

pleted correctly.

Confirm the RJ45 cable used conforms to the EIA/ TIA568A or 568B industry standards.

The maximum output consumption of each PoE port cannot exceed 15.4W

Replace the failing device with a new one to test if the PoE repeater is defective.



LT2427E-POE

24 Ports PoE Switch



Quick & Simple Installation and Troubleshooting

Included in the box:

24 Ports Ethernet Switch AC Power Line Hangers User Manual

Important Notice: Do not plug equipment through the power adapter during installation.

Installation steps:

Use 24 Cat5/5e/6 cables to connect PoE IP camera with 1-24 Ethernet port (100Mbps) of 24 Ports Ethernet Switch;

Use Cat5/5e/6 cables (or fiber) to connect UPLINK of 24 Ports Ethernet Switch with the device of NVR or computer

Use Cat5/5e/6 cables to connect Console (PoE Web Software Control) of 24 Ports Ethernet Switch with device of control terminal;

If using PoE software management: default IP is 192.168.1.200, please set the static IP address of management computer.

Connect AC power line of 24 Ports Ethernet Switch;

Lamatel's LT2427E-POE is an unmanaged switch providing 24 Ethernet and optical ports which can power connected devices. Designed for HD IP cameras, this switch simplifies wiring and can be used in surveillance, or network engineering application.

Supports PoE and PoE+ 24*10/100Mbps PoE Ethernet ports 2*1000Mbps optical ports and 2*1000Mbps ports. Distance: up to 150Mbps

Standard: IEEE802.3af, IEEE802.3at Maximum power input per port: 30W.



Four easy troubleshooting steps:

Confirm if the installation is correct; Check if the RJ45 cables are compliant with the EIA/TIA568A or 568B standards

Test all connected devices and cables for power and connectivity

Replace the failed device with a new one to test whether the PoE switch is defective.

> SFP Modules are sold seperately. RoHS CEFC

LT4027E-POE

4 Ports PoE Switch



Ouick and Easy installation and troubleshooting steps:

Included in the box:

4 Ports PoE Switch Power Adapter Hangers Suspension rail User Guide

Important Notice: Do not plug equipment through the power adapter during installation. Four easy troubleshooting steps:

Installation steps:

Use 4 network cables to connect 4 IP cameras with the 4-port PoE switch

Use another network cable (or fiber) to connect the uplink port of the switch with NVR or computer; Connect the PoE switch adapter to power your sysPoE Switch 4 ports Lamatel LT4027E-POE is an unmanaged switch and intended for HD IP cameras, allowing you to power your electronic devices properly. Quick to install and easy to use, this switch is convenient for mounting on DIN rail, wall or office.

4 x 10 / 100Mbps PoE Ethernet ports Transmission media: CAT5 / 5e and CAT6 Transmission distance up to 150m Standard: IEEE 802.3x full duplex Reset button on each PoE port Supports POE and POE +



Confirm that the installation steps above were followed.

Confirm that the RJ45 cables used comply with EIA / TIA568A or 568B standard.

The maximum output of the consumption of PoE port can not exceed 30W.

Replace the failed device with a new one to test whether the POE switch is faulty.



LT4037E-POE

4 Ports PoE Long distance Switch



Quick and Easy installation and troubleshooting steps:

Included in the box:

4 Ports PoE Switch Power Adapter Hangers Suspension rail User Guide

Important Notice: Do not plug equipment to the power adapter during installation.

Installation steps:

Use 4 network cables to connect 4 IP cameras with the 4-port PoE switch

Use another network cable (or fiber) to connect the uplink port of the switch with NVR or computer; Connect the PoE switch adapter to power your system.

Make sure the network is available.

Lamatel's 4 ports PoE Switch LT4037E-POE is an unmanaged long distance switch using advanced network cable technology enabling up to 200m signal extension. Designed for HD IP cameras, this switch power supplies them without connection to power socket. Integrating an optical port, it is perfect for long distance transmission.

4x10/100Mbps Poe and Poe+ Ethernet ports Transmission distance up to 200m Standard: IEEE802.3BASE-T, ieee802.3u 100BASE-TX, IEEE802.3 af/at standard Supports IEEE802.3X full duplex, MDI/MDIX Reset button on each PoE port Transmission medium: Cat5e/6



Four easy troubleshooting steps:

Confirm that the installation steps above were followed

Confirm that the RJ45 cables used comply with EIA / TIA568A or 568B standard.

The maximum output of the consumption of PoE port can not exceed 30W.

Replace the failed device with a new one to test whether the POE switch is faulty.



LT8027E-POE

8 Ports PoE Switch



Quick and Easy installation & troubleshooting steps:

Included in the box:

8 Ports PoE Switch Power Adapter Hangers Suspension rail User Guide

Important Notice: Do not plug equipment to the power adapter during installation.

Installation steps:

Use 8 network cables to connect 8 IP cameras with the 8-port PoE switch

Use another network cable (or fiber) to connect the uplink port of the switch with NVR or computer; Connect the PoE switch adapter to power your system.

Make sure the network is available.

Lamatel's LT8027E-POE is a 8 ports POE switch with 8 x 100Mbps Ethernet ports, designed for HD IP cameras, it enables power supply without direct connection to power sockets. This switch simplifies wiring and allows long distance transmission and can be used in surveillance, network engineering.

Power: DC/AC 48V – 57V

Transmission media: Cat5e/6 Cable

Standard: IEEE802.3 af/at

Protection: Strong lightning protection, ESD, anti-

interference.

Supports PoE et PoE+

Transmission distance up to 150m



Four easy troubleshooting steps:

Confirm that the installation steps above were followed.

Confirm that the RJ45 cables used comply with EIA / TIA568A or 568B standard.

The maximum output of the consumption of PoE port can not exceed 30W.

Replace the failed device with a new one to test whether the POE switch is faulty.

SFP Modules sold seperately.



Ethernet Cables

A brief history of ethernet cables and where the industry is heading.

Cat 6A is currently the cable of choice for future-proofing cabling installations. You will typically replace your electronic equipment three to five times during the lifespan of one cabling system, which can be as long as 15–20 years. So cabling deployed today will need to support at least two generations of Ethernet. As technology advances, it is estimated that the 10-GbE standard will be widely deployed by 2014. That's why you should consider getting the best cabling you can—Cat 6A minimum. It has been extensively tested and has been proven to support 10-GbE systems with plenty of headroom. CAT6 may support 10-GbE in links less than 37 meters, such as in a data center.

Are you still using Cat5 cables? Cat 5 is the slowpoke of the bunch. It can handle 10/100 Mbps speeds (Fast Ethernet) at up to 100 MHz bandwidth. That's a lot of numbers, but what it means is "slow and obsolete".

Cat 5e (Cat 5 enhanced) is currently the most commonly used in new installations. It's designed to greatly reduce crosstalk. A step above Cat 5, it can handle 1000 Mbps speeds (gigabit Ethernet) at 100 MHz.

Category 6 is a major improvement over Cat 5e. It's really just the bee's knees. It's suitable for up to 10 gigabit Ethernet at 250 MHz. To even better tackle the issue of that pesky crosstalking, Cat 6 cable has an internal separator that isolates pairs from one another. For those who want to "future-proof" their residential or commercial network as much as possible without a significant cost increase, Cat 6 is a great choice.

Cat6a outdoes its predecessor in performance, crosstalk prevention, and even size. But is it worth it to upgrade?

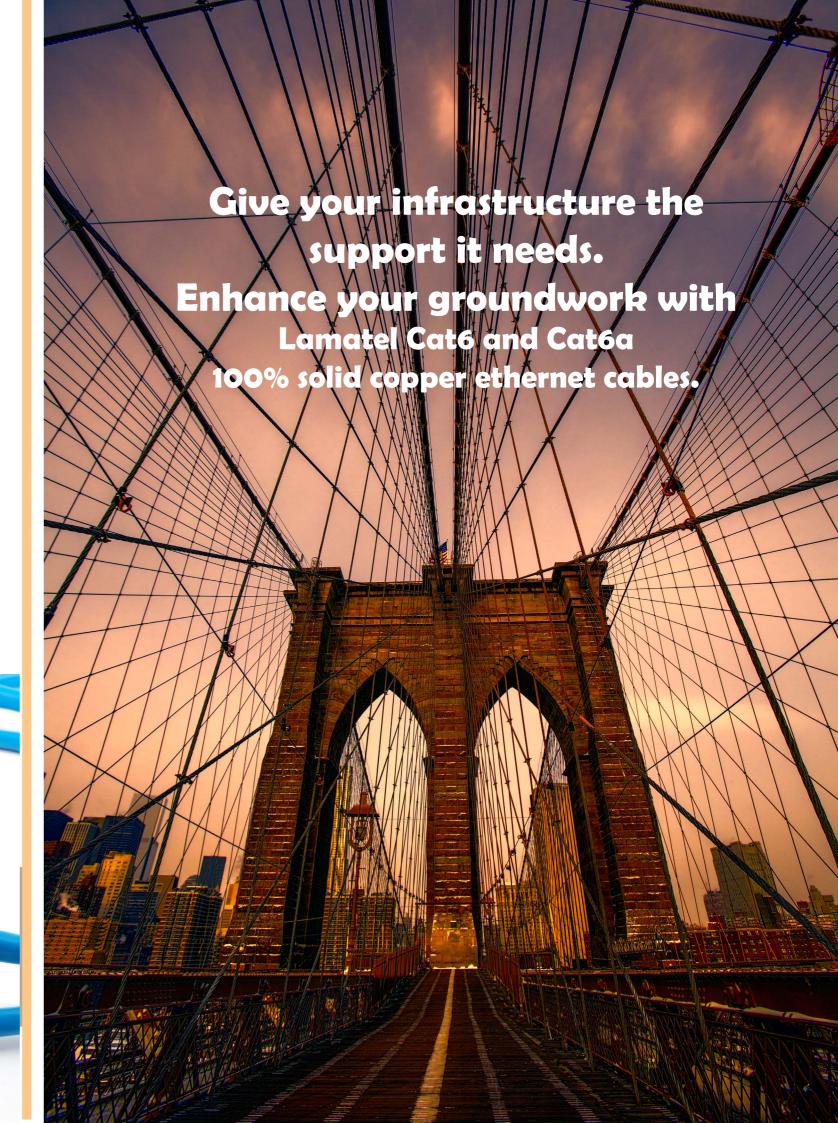
Cat6 and Cat6a were designed for Gigabit Ethernet and other standard network protocols, so they can both handle 10BASE-T, 100BASE-TX, 1000BASE-TX, and 10GBASE-T. The differences don't become clear until you start looking at speed and distance. Cat6 cable is rated for 250 MHz, so it has a reduced maximum length (37-55 meters) when used for 10GBASE-T applications. Cat6a doubles that capability by performing at up to 500 MHz, which allows 10GBASE-T to be run over longer distances of up to 100 meters. Both Cat6 and Cat6a are backward-compatible with Cat3, Cat5, and Cat5e.



Need help selecting the best cable for your application? Call us now to speak with a Lamatel expert.

Our team will lead you the right way!

514-907-3179



Lamatel Ethernet Cables

LTC6AUCM73

LAN CABLE CAT6A FTP CM

Conductor:

Conductor: 23AWG Bare Solid Copper

Insulation: HD-PE PVC Jacket available RoHS / Reach compliant

Applications:

10G Base T 1000Base T (IEEE 802.3ab) Telephone and other communication circuits such as voice, data, and audio for on-premise customer systems.

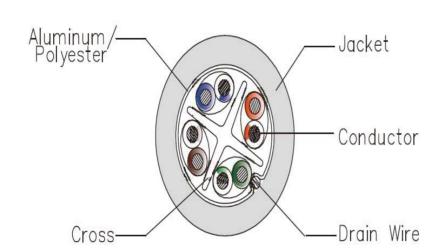
Industry Standards:

UL/CSA Listed CM Verified to ANSI/TIA-568-C.2 CAT.6A Electrical Characteristics

Impedance: 100±150hms (1-600MHz) Pair to Ground: 330Pf/100M MAX. Propagation Delay Skew: 45ns/100M Dielectric Strength: AC-500V/1 Min

CONNECTORS SOLD SEPARATELY.





CAT.6A FTP



Available colors

Green White
Pink Black
Purple Blue
Grey Yellow
Red Orange

More colours are available.

Please provide us with the RGB color swatch.

OEM and Rebranding

Minimum order quantity: 50 rolls of 1000 ft Packing: 305/Wooden Roll with Box

Ship term: Ex-Work

Payment: TT50 % in Advance, TT50% before shipment.

Customer must provide packaging designs.

SELLING PRICE WILL BE ADJUSTED BY LAST MONTH AVERAGE LME COPPER PRICE.

LTC6AUCMR73

LAN CABLE CAT6A FTP CMR

Conductor:

Conductor: 23AWG Bare Solid Copper

Insulation: HD-PE PVC Jacket available RoHS / Reach compliant

Applications:

10G Base T 1000Base T (IEEE 802.3ab) Telephone and other communication circuits

such as voice, data, and audio

for on-premise customer systems.

Industry Standards:

UL/CSA Listed CMR Verified to ANSI/TIA-568-C.2 CAT.6A

Electrical Characteristics

Impedance: 100±150hms (1-600MHz) Pair to Ground: 330Pf/100M MAX. Propagation Delay Skew: 45ns/100M Dielectric Strength: AC-500V/1 Min

CONNECTORS SOLD SEPARATELY.

Available colors

Green White
Pink Black
Purple Blue
Grey Yellow
Red Orange

More colours are available.

Please provide us with the RGB color swatch.

OEM and Rebranding

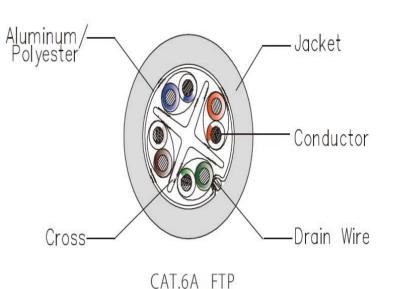
Minimum order quantity: 50 rolls of 1000 ft Packing: 305/Wooden Roll with Box

Ship term: Ex-Work

Payment: TT50 % in Advance, TT50% before shipment.

Customer must provide packaging designs.

SELLING PRICE WILL BE ADJUSTED BY LAST MONTH AVERAGE LME COPPER PRICE.







LTC6AUTPCM85

LAN CABLE CAT6A UTP CM

Conductor:

Conductor: 23AWG Bare Solid Copper Insulation: HD-PE PVC Jacket available RoHS / Reach compliant

Applications:

10G Base T 1000Base T (IEEE 802.3ab)

Telephone and other communication circuits such as voice, data, and audio for on-premise customer systems.

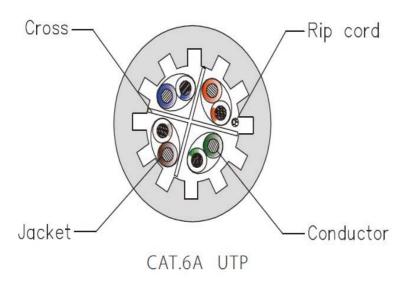
Industry Standards:

UL/CSA Listed CMR Verified to ANSI/TIA-568-C.2 CAT.6A

Electrical Characteristics

Impedance: 100±150hms (1-600MHz) Pair to Ground: 330Pf/100M MAX. Propagation Delay Skew: 45ns/100M Dielectric Strength: AC-500V/1 Min

CONNECTORS SOLD SEPARATELY.





Available colors

Green White
Pink Black
Purple Blue
Grey Yellow
Red Orange

More colours are available.

Please provide us with the RGB color swatch.

OEM and Rebranding

Minimum order quantity: 50 rolls of 1000 ft Packing: 305/Wooden Roll with Box

Ship term: Ex-Work

Payment: TT50 % in Advance, TT50% before shipment.

Customer must provide packaging designs.

SELLING PRICE WILL BE ADJUSTED BY LAST MONTH AVERAGE LME COPPER PRICE.

Lamatel Inc. A-9605 Ignace street, Brossard, Quebec, J4Y 2P3 Tel: 514-907-3179, www.lamatel.com

LTC6AUCMR85

LAN CABLE CAT6A UTP CMR

Conductor:

Conductor: 23AWG Bare Solid Copper

Insulation: HD-PE PVC Jacket available Jacket color: Gray RoHS / Reach compliant

Applications:

10G Base T

1000Base T (IEEE 802.3ab)

Telephone and other communication circuits such as voice, data, and audio for on-premise

customer systems.

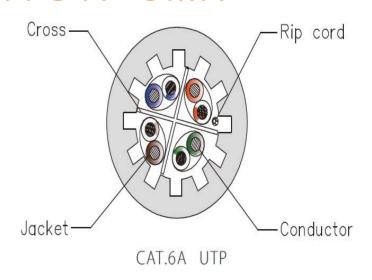
Industry Standards:

UL/CSA Listed CM Verified to ANSI/TIA-568-C.2 CAT.6A

Electrical Characteristics

Impedance: 100±150hms (1-600MHz) Pair to Ground: 330Pf/100M MAX. Propagation Delay Skew: 45ns/100M Dielectric Strength: AC-500V/1 Min

CONNECTORS SOLD SEPARATELY.





Available colors

Green White
Pink Black
Purple Blue
Grey Yellow
Red Orange

More colours are available.

Please provide us with the RGB color swatch.

OEM and Rebranding

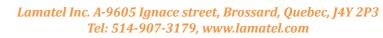
Minimum order quantity: 50 rolls of 1000 ft Packing: 305/Wooden Roll with Box

Ship term: Ex-Work

Payment: TT50 % in Advance, TT50% before shipment.

Customer must provide packaging designs.

SELLING PRICE WILL BE ADJUSTED BY LAST MONTH AVERAGE LME COPPER PRICE.



LTC6AULSZH85

LAN CABLE CAT6A UTP LSZH

Conductor:

Conductor: 23AWG Bare Solid Copper

Insulation: HD-PE LSZH Jacket available Flame test: FT2

RoHS / Reach compliant

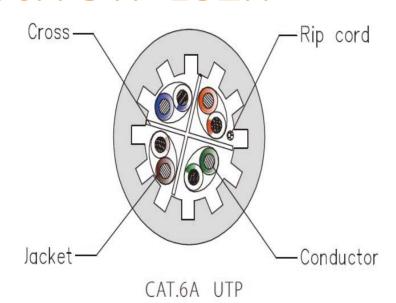
Applications:

10Base-T, 100Base-T (IEEE 802.3) 1000Base-Tx Gigabit Ethernet

Industry Standards:

UL Listed LSZH*

Product standard certification: UL20851 Verified to ANSI/TIA-568-C.2 CAT.6A



Electrical Characteristics

Impedance: 100±15Ω

Mutual Capacitance MAX.nf/1000ft:17.1 DC Resistance Unbalance of a pair: 5% MAX.

Pair to Ground: 330Pf/100M MAX. Propagation Delay Skew: 45ns/100M

Normal Velocity of Propagation: 68% at 250MHz



CONNECTORS SOLD SEPARATELY.

Available colors

Green White Pink Black Purple Blue

Grey Yellow Red Orange More colours are available.

Please provide us with the

RGB color swatch.

OEM and Rebranding

Minimum order quantity: 50 rolls of 1000 ft Packing: 305/Wooden Roll with Box

Ship term: Ex-Work

Payment: TT50 % in Advance, TT50% before shipment.

Customer must provide packaging designs.

SELLING PRICE WILL BE ADJUSTED BY LAST MONTH AVERAGE LME COPPER PRICE.



LTC6ULSZH58

LAN CABLE CAT6 UTP LSZH

Conductor:

Conductor: 23AWG Bare Solid Copper

Insulation: PE

LSZH Jacket available Flame test: FT2

RoHS / Reach compliant

Applications:

10Base-T, 100Base-T (IEEE 802.3) 1000Base-Tx Gigabit Ethernet

Industry Standards:

UL Listed LSZH*

Product standard certification: UL20851 Verified to ANSI/TIA-568-C.2 CAT.6

Electrical Characteristics

Impedance: $100\pm15\Omega$

Mutual Capacitance MAX.nf/1000ft:17.1 DC Resistance Unbalance of a pair: 5% MAX.

Pair to Ground: 330Pf/100M MAX. Propagation Delay Skew: 45ns/100M

Normal Velocity of Propagation: 68% at 250MHz

CONNECTORS SOLD SEPARATELY.

Available colors

Green White Pink Black Purple Blue

Grey Yellow Red Orange More colours are available.
Please provide us with the
RGB color swatch.

OEM and Rebranding

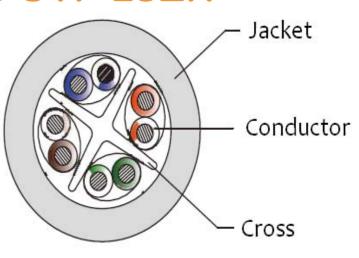
Minimum order quantity: 50 rolls of 1000 ft Packing: 305/Wooden Roll with Box

Ship term: Ex-Work

Payment:TT50 % in Advance,TT50% before shipment.

Customer must provide packaging designs.

SELLING PRICE WILL BE ADJUSTED BY LAST MONTH AVERAGE LME COPPER PRICE.



Cat 6 UTP



WATER OUALITY

LTC6UOUT695

LAN CABLE CAT6 UTP OUTDOOR

Conductor

Conductor: 23AWG Bare Solid Copper

Insulation: HD-PE, PVC Jacket available RoHS. Reach compliant 4 Twisted Pair: 8C

Cabled together, Putting separator X(PE) across, then

with one ripcord extruded.

Applications:

10Base-T, 100Base-T (IEEE 802.3) 1000Base-Tx Gigabit Ethernet Broadband video

Electrical Characteristics

Impedance: $100\pm15\Omega$

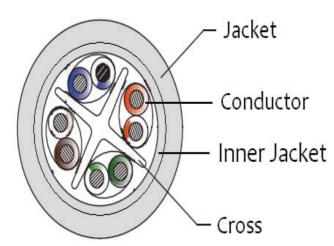
Mutual Capacitance MAX.nf/1000ft:17.1 DC Resistance Unbalance of a pair: 5% MAX.

Pair to Ground: 330Pf/100M MAX. Propagation Delay Skew: 45ns/100M

Normal Velocity of Propagation: 68% at 250MHz Max. Conductor DC Resistance (4/km) 72

Min. Insulation Resistance (4-m) HD PE:100M

Dielectric Strength AC-500V/1 Min



Cat 6 UTP Outdoor



CONNECTORS SOLD SEPARATELY.

Available colors



Green White
Pink Black
Purple Blue
Grey Yellow
Red Orange

More colours are available.

Please provide us with the RGB color swatch.

OEM and Rebranding

Minimum order quantity: 50 rolls of 1000 ft Packing:305/Wooden Roll with Box

Ship term: Ex-Work

Payment: TT50 % in Advance, TT50% before shipment.

SELLING PRICE WILL BE ADJUSTED BY LAST MONTH AVERAGE LME COPPER PRICE.

LTC6UCMR58

LAN CABLE CAT6 UTP CMR

Conductor:

23AWG Bare Solid Copper Insulation: HD-PE, PVC Jacket available RoHS compliant

Applications:

10Base-T, 100Base-T (IEEE 802.3) 1000Base-Tx Gigabit Ethernet Broadband video

Industry Standards:

UL Listed CMR UL, ETL&3P Verified to ANSI/TIA-568-C.2 Cat6 ISO/IEC 11801 NEMA WC 66 prEN 50173-6-1

- Cross

Cat 6 UTP

Electrical Characteristics

Impedance: $100\pm15\Omega$

Mutual Capacitance MAX.nf/1000ft:17.1 DC Resistance Unbalance of a pair: 5% MAX.

(Pair to Ground):330Pf/100M MAX. Propagation Delay Skew: 45ns/100M

Normal Velocity of Propagation: 68% at 250MHz

CONNECTORS SOLD SEPARATELY.

Available colors

Green White
Pink Black
Purple Blue
Grey Yellow
Red Orange

More colours are available.
Please provide us with the
RGB color swatch.

OEM and Rebranding

Minimum order quantity: 50 rolls of 1000 ft Packing:305/Wooden Roll with Box

Ship term: Ex-Work

Payment:TT50 % in Advance,TT50% before shipment.

SELLING PRICE WILL BE ADJUSTED BY LAST MONTH AVERAGE LME COPPER PRICE.





Handles any stretch of bandwidth, no matter how heavy the load is.



For all your outdoor installations.

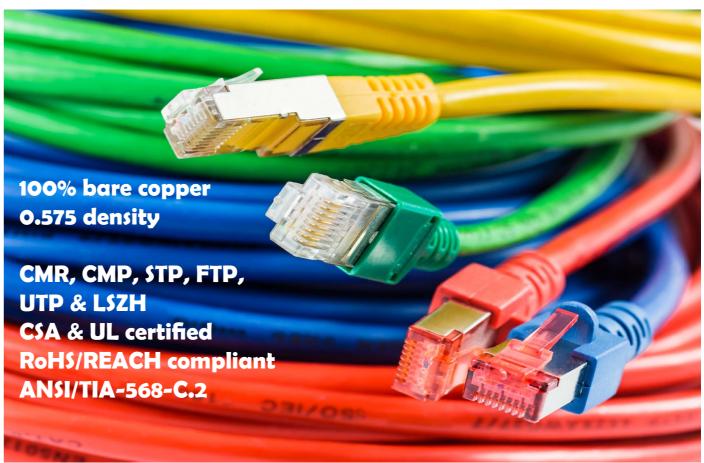
Lamatel Cat6 and Cat6a

Durability • Reliability • Quality

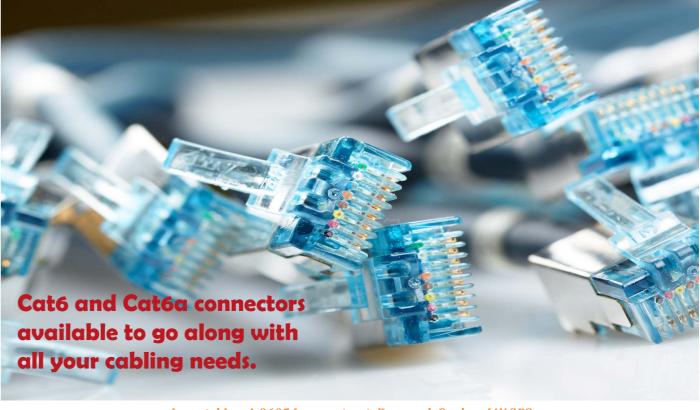


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Lamatel Patch Cord Cables Cat6 and Cat6a

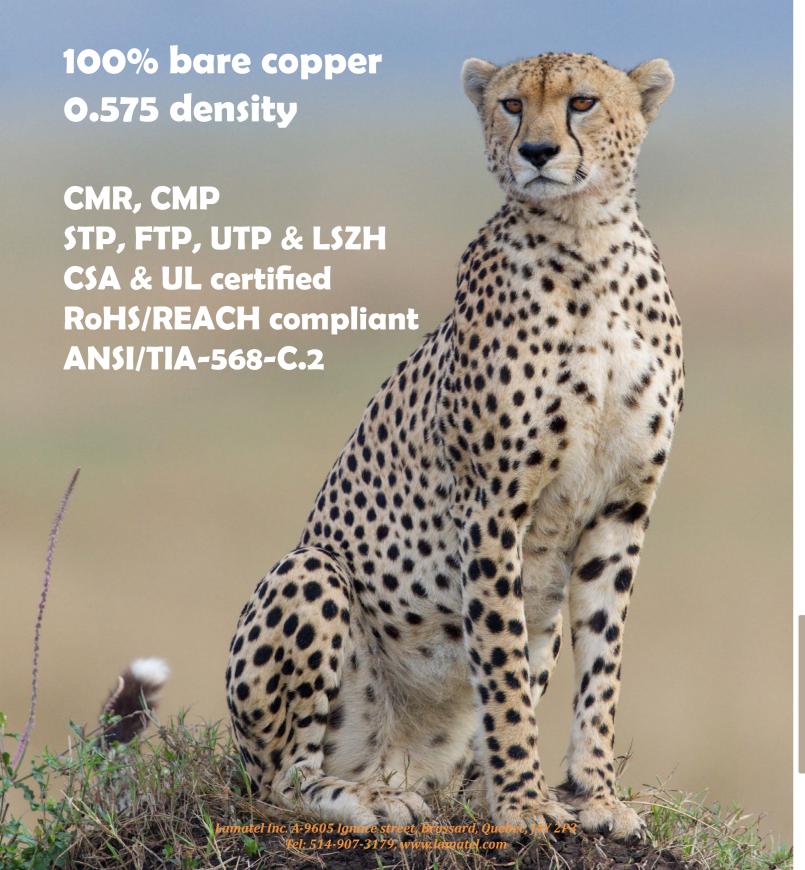


Cat6 and Cat6a connectors



Step aside! There is a faster Cat in town

Lamatel Cat6 and Cat6a cables are here



Lamatel PDU

LT-20H1-06AHBCMB

6 way PDU - Mixed Sockets

Multi-outlet power distribution unit is the ideal means of powering multiple loads in 19 inch rackmount, wallmount and under-counter applications, such as internetworking, PC systems, telecommunications, audio/video, security, sound reinforcement and more. Ideal for distribution of UPS, generator or commercially derived AC power to protected equipment.

Item	Description
Product Name	Power distribution Unit
Socket Type	BS1363 90 degrees, GB2099
Socket Quantity	6 way
Socket Design	3 x UK, 3 x universal input pluggs
Power input	Left end single input
Bracket Install	Inverse installation
Cable with plug	BS1363 13A plug
Control Function	16A lighted master switch
Protection Function	No protection function
Case	Black
Cable Specification	3 x 1.5 mm x 1.8 mm
Product size	L x W x H: 48.29 x 44.4 x 6.2 mm
Mounting length	454.9 mm
Case length	426.9 mm
PDU Exponent	1.081
Fittings	No
Rating Voltage	250VAC 50/60Hz
Rating Current	13A
Max. Power	3250W
Safety Authentication	CE
RoHS	Yes





LAMATEL INC. A-9605 IGNACE ST, BROSSARD QUEBEC CANADA J4Y-2P3 WWW.LAMATEL.COM

LT-50E3-08AHDCMB

8 way PDU - Schuko Sockets

Multi-outlet power distribution unit is the ideal means of powering multiple loads in 19 inch rackmount, wallmount and under-counter applications, such as internetworking, PC systems, telecommunications, audio/video, security, sound reinforcement and more. Ideal for distribution of UPS, generator or commercially derived AC power to protected equipment.

Item	Description
Product Name	Power distribution Unit
Socket Type	DIN49440 16A Socket
Socket Quantity	8 way
Socket Design	8 x Schuko input plugs
Power input	Left end single input
Bracket Install	Frontal installation
Cable with plug	DIN49441 16A plug
Control Function	16A lighted master switch
Protection Function	No protection function
Case	Black
Cable Specification	3 x 1.5 mm x 1.8 mm
Product size	L x W x H: 48.25 x 44.4 x 6.2 mm
Mounting length	456.5 mm
Case length	430 mm
PDU Exponent	0.795
Fittings	No
Rating Voltage	240VAC 50/60Hz
Rating Current	16A
Max. Power	3840W
Safety Authentication	CE
RoHS	Yes





LAMATEL INC. A-9605 IGNACE ST, BROSSARD QUEBEC CANADA J4Y-2P3 WWW.LAMATEL.COM

LT-50E3-06AHDCMB

6 way PDU - Schuko Sockets

Multi-outlet power distribution unit is the ideal means of powering multiple loads in 19 inch rackmount, wallmount and under-counter applications, such as internetworking, PC systems, telecommunications, audio/video, security, sound reinforcement and more. Ideal for distribution of UPS, generator or commercially derived AC power to protected equipment.

Item	Description
Product Name	Power distribution Unit
Socket Type	DIN49440 16A Socket
Socket Quantity	6 way
Socket Design	6 x Schuko input plugs
Power input	Left end single input
Bracket Install	Inverse installation
Cable with plug	DIN49441 16A plug
Control Function	16A lighted master switch
Protection Function	No protection function
Case	Black
Cable Specification	3 x 1.5 mm x 1.8 mm
Product size	L x W x H: 48.3 x 44.4 x 6.2 mm
Mounting length	456.5 mm
Case length	430 mm
PDU Exponent	0.678
Fittings	No
Rating Voltage	250VAC 50/60Hz
Rating Current	16A
Max. Power	4000W
Safety Authentication	CE
RoHS	Yes





LAMATEL INC. A-9605 IGNACE ST, BROSSARD QUEBEC CANADA J4Y-2P3 WWW.LAMATEL.COM

LT-20U1-08AVDCMB

8 way PDU - Universal Sockets

Multi-outlet power distribution unit is the ideal means of powering multiple loads in 25 inch rackmount, wallmount and under-counter applications, such as internetworking, PC systems, telecommunications, audio/video, security, sound reinforcement and more. Ideal for distribution of UPS, generator or commercially derived AC power to protected equipment.

LAMATEL INC. A-9605 IGNACE ST, BROSSARD QUEBEC CANADA J4Y-2P3 WWW.LAMATEL.COM

Item	Description
Product Name	Power distribution Unit
Socket Type	GB2099.3
Socket Quantity	8 way
Socket Design	8 x universal input pluggs
Power input	Left end single input
Bracket Install	Inverse installation
Cable with plug	DIN49441 16A plug
Control Function	16A lighted master switch
Protection Function	No protection function
Case	Black
Cable Specification	3 x 1.5 mm x 1.8 mm
Product size	L x W x H: 59.84 x 44.4 x 6.2 mm
Mounting length	570.4 mm
Case length	542.4 mm
PDU Exponent	1.363
Fittings	No
Rating Voltage	240VAC 50/60Hz
Rating Current	16A
Max. Power	3840W
Safety Authentication	CE
RoHS	Yes





8 way PDU - Universal Sockets

Multi-outlet power distribution unit is the ideal means of powering multiple loads in 25 inch rackmount, wallmount and under-counter applications, such as internetworking, PC systems, telecommunications, audio/video, security, sound reinforcement and more. Ideal for distribution of UPS, generator or commercially derived AC power to protected equipment.

Item	Description
Product Name	Power distribution Unit
Socket Type	GB2099.3
Socket Quantity	8 way
Socket Design	8 x universal input pluggs
Power input	Left end single input
Bracket Install	Inverse installation
Cable with plug	BS1363 13A plug
Control Function	16A lighted master switch
Protection Function	No protection function
Case	Black
Cable Specification	3 x 1.5 mm x 1.8 mm
Product size	L x W x H: 59.84 x 44.4 x 6.2 mm
Mounting length	570.4 mm
Case length	542.4 mm
PDU Exponent	1.363
Fittings	No
Rating Voltage	240VAC 50/60Hz
Rating Current	13A
Max. Power	3120W
Safety Authentication	CE
RoHS	Yes





LAMATEL INC. A-9605 IGNACE ST, BROSSARD QUEBEC CANADA J4Y-2P3 WWW.LAMATEL.COM

LT-20U1-06AHDCMB

6 way PDU - Universal Sockets

Multi-outlet power distribution unit is the ideal means of powering multiple loads in 19 inch rackmount, wallmount and under-counter applications, such as internetworking, PC systems, telecommunications, audio/video, security, sound reinforcement and more. Ideal for distribution of UPS, generator or commercially derived AC power to protected equipment.

Item	Description
Product Name	Power distribution Unit
Socket Type	GB2099.3
Socket Quantity	6 way
Socket Design	6 x universal input pluggs
Power input	Left end single input
Bracket Install	Frontal installation
Cable with plug	DIN49441 16A plug
Control Function	16A lighted master switch
Protection Function	No protection function
Case	Black
Cable Specification	3 x 1.5 mm x 1.8 mm
Product size	L x W x H: 48.83 x 44.4 x 6.2 mm
Mounting length	455.8 mm
Case length	427.8 mm
PDU Exponent	1.105
Fittings	No
Rating Voltage	240VAC 50/60Hz
Rating Current	16A
Max. Power	3840W
Safety Authentication	CE
RoHS	Yes



LAMATEL INC. A-9605 IGNACE ST, BROSSARD QUEBEC CANADA J4Y-2P3 WWW.LAMATEL.COM



LT-20U1-06AHBCMB

6 way PDU - Universal Sockets

Multi-outlet power distribution unit is the ideal means of powering multiple loads in 19 inch rackmount, wallmount and under-counter applications, such as internetworking, PC systems, telecommunications, audio/video, security, sound reinforcement and more. Ideal for distribution of UPS, generator or commercially derived AC power to protected equipment.

Item	Description
Product Name	Power distribution Unit
Socket Type	GB2099.3
Socket Quantity	6 way
Socket Design	6 x universal input pluggs
Power input	Left end single input
Bracket Install	Inverse installation
Cable with plug	BS1363 13A plug
Control Function	16A lighted master switch
Protection Function	No protection function
Case	Black
Cable Specification	3 x 1.5 mm x 1.8 mm
Product size	L x W x H: 48.83 x 44.4 x 6.2 mm
Mounting length	455.8 mm
Case length	427.8 mm
PDU Exponent	1.105
Fittings	No
Rating Voltage	240VAC 50/60Hz
Rating Current	13A
Max. Power	3120W
Safety Authentication	CE
RoHS	Yes





LT-20K3-10AVBCMB

10 way PDU - UK Sockets

Multi-outlet power distribution unit is the ideal means of powering multiple loads in 30 inch rackmount, wallmount and under-counter applications, such as internetworking, PC systems, telecommunications, audio/video, security, sound reinforcement and more. Ideal for distribution of UPS, generator or commercially derived AC power to protected equipment.

LAMATEL INC. A-9605 IGNACE ST, BROSSARD QUEBEC CANADA J4Y-2P3 WWW.LAMATEL.COM

Item	Description
Product Name	Power distribution Unit
Socket Type	BS1363 135 degree
Socket Quantity	10 way
Socket Design	10 x UK input pluggs
Power input	Left end single input
Bracket Install	Inverse installation
Cable with plug	BS1363 13A plug
Control Function	16A lighted master switch
Protection Function	No protection function
Case	Black
Cable Specification	3 x 1.5 mm x 1.8 mm
Product size	L x W x H: 75.5 x 44.4 x 6.2 mm
Mounting length	727 mm
Case length	699 mm
PDU Exponent	1.541
Fittings	No
Rating Voltage	240VAC 50/60Hz
Rating Current	13A
Max. Power	3120W
Safety Authentication	CE
RoHS	Yes



LT-20K3-08AVBCMB

8 way PDU - UK Sockets

Multi-outlet power distribution unit is the ideal means of powering multiple loads in 25 inch rackmount, wallmount and under-counter applications, such as internetworking, PC systems, telecommunications, audio/video, security, sound reinforcement and more. Ideal for distribution of UPS, generator or commercially derived AC power to protected equipment.

Item	Description
Product Name	Power distribution Unit
Socket Type	BS1363 135 degree
Socket Quantity	8 way
Socket Design	8 x UK input pluggs
Power input	Left end single input
Bracket Install	Inverse installation
Cable with plug	BS1363 13A plug
Control Function	16A lighted master switch
Protection Function	No protection function
Case	Black
Cable Specification	3 x 1.5 mm x 1.8 mm
Product size	L x W x H: 63.5 x 44.4 x 6.2 mm
Mounting length	607 mm
Case length	579 mm
PDU Exponent	1.299
Fittings	No
Rating Voltage	240VAC 50/60Hz
Rating Current	13A
Max. Power	3120W
Safety Authentication	CE
RoHS	Yes





LT-20H1-08AVBCMB

8 way PDU - Mixed Sockets

Multi-outlet power distribution unit is the ideal means of powering multiple loads in 25 inch rackmount, wallmount and under-counter applications, such as internetworking, PC systems, telecommunications, audio/video, security, sound reinforcement and more. Ideal for distribution of UPS, generator or commercially derived AC power to protected equipment.

Item	Description
Product Name	Power distribution Unit
Socket Type	BS1363 90 degrees, GB2099
Socket Quantity	8 way
Socket Design	4 x UK, 4 x universal input pluggs
Power input	Left end single input
Bracket Install	Inverse installation
Cable with plug	BS1363 13A plug
Control Function	16A lighted master switch
Protection Function	No protection function
Case	Black
Cable Specification	3 x 1.5 mm x 1.8 mm
Product size	L x W x H: 66.62 x 44.4 x 6.2 mm
Mounting length	638.2 mm
Case length	610.2 mm
PDU Exponent	1.331
Fittings	No
Rating Voltage	240VAC 50/60Hz
Rating Current	13A
Max. Power	3120W
Safety Authentication	CE
RoHS	Yes



LAMATEL INC. A-9605 IGNACE ST, BROSSARD QUEBEC CANADA J4Y-2P3 WWW.LAMATEL.COM

Lamatel Headsets

LT-6000NC

Mono Noise Cancelling

Hi-Fi audio quality with Neodymium speakers. 360° rotation MIC boom offers optimal convenience. Wide headband provides more comfortable to user. Auto Mute function when boom rotates to 90°. The Ultra Noise canceling Mic filters 90% background noise. Broad Band audio frequency makes more natural voice. Active Protection safeguards the user from acoustic burst. MIC AGC control improves the compatibility with different systems.

Features:

Receiving Type: Dynamic moving coil

Microphone: Electret

Wearing Style: Adjustable headband

Connection type: Quick Link

Comfort aid: Leather / Foam ear cushion

Microphone: 360° adjustable

Transmitting Technical Specification:

Rated Frequency Range: 100 -10KHz

Directivity: Cardinoide

Noise canceling(below 1kHz,far field):

70b/ octave

Sensitivity @1KHz (RL=2.2k Ω Vs=3.0v 0Db=1v/

Pa): 49± 3dB

Mechanical Specifications:

Weight: 60g Cord Length: 1.0m

Insertion cycles: 10,000 Min

Contacts: phosphor bronze gold-plated

Housing: PA66 Shell Injection

Storage Temperature: - 25°C to -65°C



Receiving Technical Specification:

Diameter: 27 mm

Rated Frequency Range : 300 - 6.5 kHzNominal Impedance: $150 \Omega \pm 15\%$ Sealed Sensitivity@ 1kHz: $103 \pm 3 \text{dB}$

TDH @ 1kHz: <2%

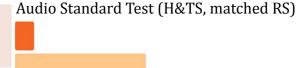
Max in-band Distortion: <4%

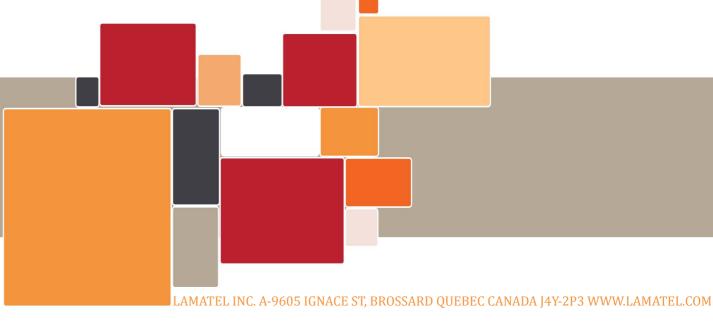
Sealed acoustic press limit @1Khz: IEC Standards

318 Audio Test

Sealed acoustic press limit @1Khz: Measured

according to Lamatel subjective RX.





LT-5000NC

Mono Noise Cancelling

Hi-Fi audio quality with Neodymium speakers. 360° rotation MIC boom offers optimal convenience. Wide headband provides more comfortable to user. Auto Mute function when boom rotates to 90°. The Ultra Noise canceling Mic filters 90% background noise. Broad Band audio frequency makes more natural voice. Active Protection safeguards the user from acoustic burst. MIC AGC control improves the compatibility with different systems.

Features:

Receiving Type: Dynamic moving coil Microphone: Non - Noise canceling Wearing Style: Adjustable headband Connection type: Quick Link Microphone: 360° adjustable

Comfort aid: Leather/Foam ear cushion

Transmitting Electroacoustical Specifications:

Rated Frequency Range: 100-10KHz Directivity: Omnidirectional

Noise canceling: Non - Noise canceling

below 1kHz

Sensitivity @ 1kHz @ 1kHz (RL=2.2K Ω Vs=3.0V DC 0dB=1V/Pa): -38±3dB

Mechanical Specifications:

Weight: 56g Cord length: 1.0m

Insertion cycles: 20000 minimum Contacts: phosphor bronze gold-plated

Housing: PA66 Shell Injection Storage Temperature: - 25°C to -65°C



Receiving Electroacoustical Specifications:

Diameter: 27 mm

Rated Frequency Range: $300 \sim 3.4 \text{ kHz}$ Nominal Impedance: $150\Omega \pm 15\%$ Sealed Sensitivity @ 1kHz: $103 \pm 3 \text{dB}$

THD @ 1kHz: <2%

LAMATEL INC. A-9605 IGNACE ST, BROSSARD QUEBEC CANADA 14Y-2P3 WWW.LAMATEL.COM

Max in-band Distortion: <4%

Sealed acoustic press limit @ 1Khz: IEC standards

318 Audio Test

Sealed acoustic press limit @ 1Khz: Measured according to Lamatel subjective RX. Audio

Standard Test (H&TS, matched RS)

LT 1000NC

Mono Noise Cancelling

Hi-Fi audio quality with Neodymium speakers. 360° rotation MIC boom offers optimal convenience. Wide headband provides more comfortable to user. Auto Mute function when boom rotates to 90°. The Ultra Noise canceling Mic filters 90% background noise. Broad Band audio frequency makes more natural voice. Active Protection safeguards the user from acoustic burst. MIC AGC control improves the compatibility with different systems.

Features:

Receiving Type: Dynamic moving coil

Microphone: Electret

Wearing Style: Adjustable headband

Connection type: Quick Link

Comfort aid: Leather / Foam ear cushion Microphone boom: 330° adjustable

Receiving Technical Specification:

Diameter: 27 mm

Rated Frequency Range : 300 – 6.5kHz Nominal Impedance: $150~\Omega \pm 15\%$ Sealed Sensitivity@ 1kHz: $103~\pm 3$ dB

TDH @ 1kHz: <2%

Max in-band Distortion: <4%

Sealed acoustic press limit @1Khz: IEC Standars 318 Audio Test

Sealed acoustic press limit @1Khz: Measured according to Lamatel subjective RX.

Audio Standard Test (H&TS, matched RS)

Technical Specification: Transmitting

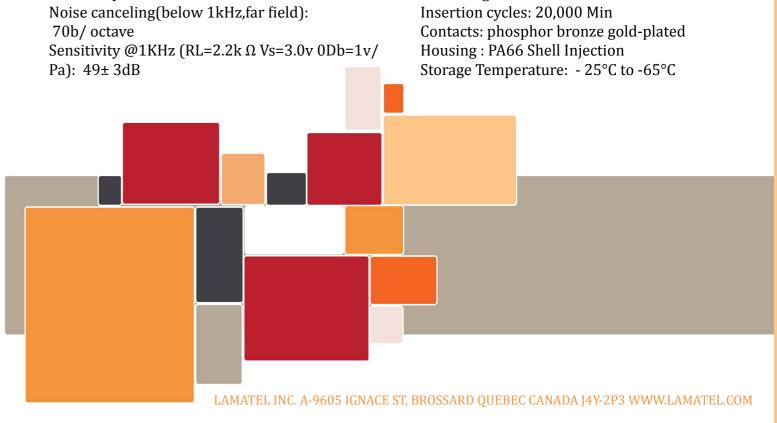
Rated Frequency Range: 100 -10KHz

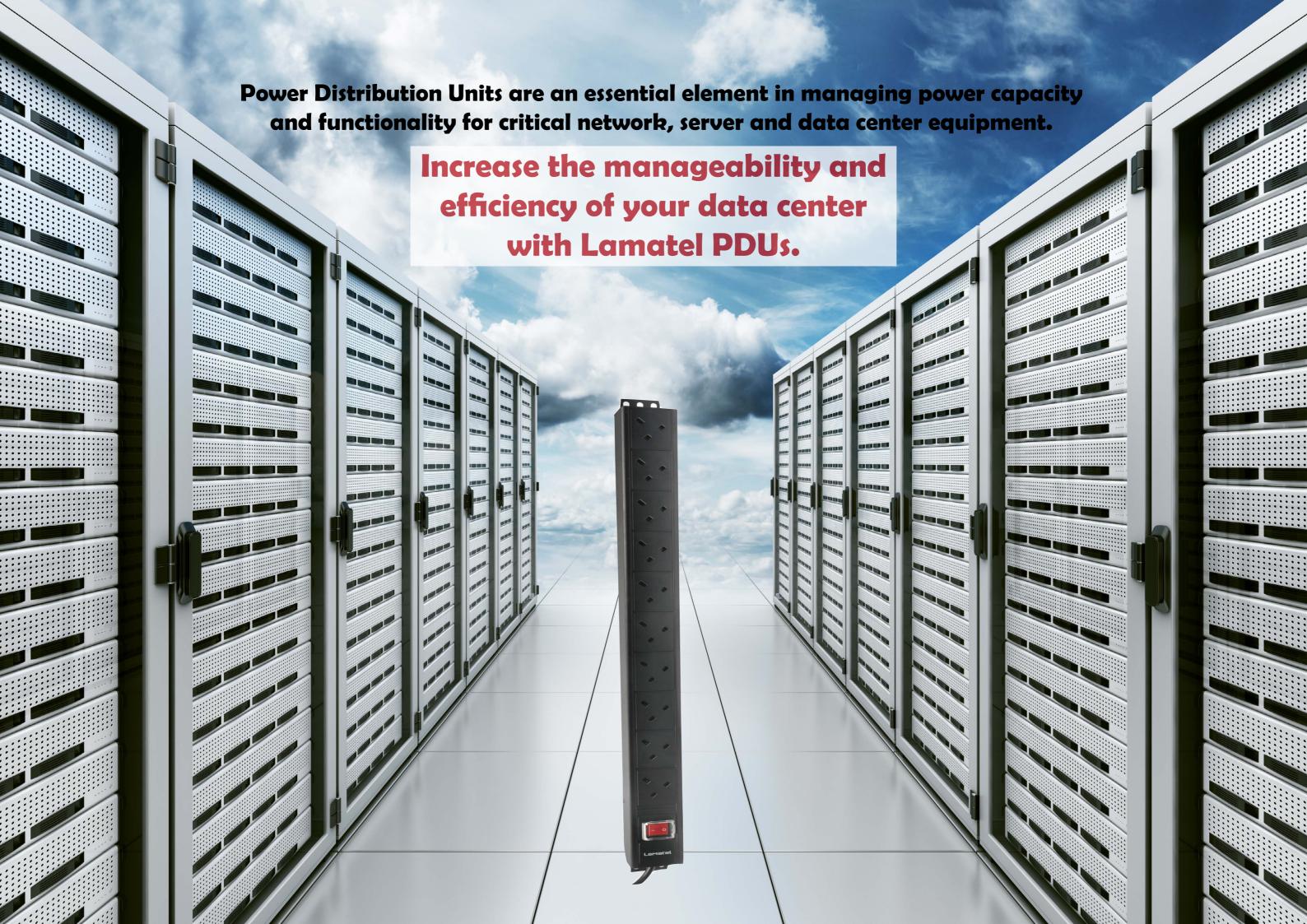
Directivity: Cardinoide

Mechanical Specifications:

Lamatel

Weight: 65-82Kg Cord Length: 3.0m





OEM TERMS AND CONDITIONS OF SALE

- 1. ACCEPTANCE Lamatel, Inc. is herein after referred to as "Seller" and the purchaser is herein after referred to as "Buyer." Any order that contains terms and conditions in addition to or inconsistent with the following shall not be binding upon Seller unless acceptance of each nonconforming term or condition is clearly and expressly made in writing by Seller, and failure of Seller to object to provisions contained in any purchase order or other communication from Buyer shall not be construed as a waiver of these terms and conditions nor as acceptance of any such provisions. Acknowledgements of Buyer's order forms, facsimile orders or "releases" shall not be construed to be a waiver, amendment, or modification of these terms and conditions. Seller is not responsible for typographical or written errors made in any quotations, orders or publications and all such errors are subject to correction. Buyer is responsible for providing all packaging designs and text.
- 2. SHIPMENTS All shipments of product, unless otherwise agreed upon, will be made E.X.W. Point of Shipment. If the purchaser specifies a manner or routing of shipment different from that determined by Lamatel, we will comply but ship product freight collect. Any Lamatel products may be combined in one shipment to meet minimum freight weight or dollar requirements. Shipment of plus or minus five (5) percent of order quantity will be considered to have completed the order and Buyer agrees to pay the unit price for the quantities shipped. Purchase orders containing penalty clauses for failure to meet shipment schedules are not acceptable unless specifically approved in writing by an officer of Seller. Buyer agrees to pay the charges for special packing if it is required for domestic shipment or export shipment. Shipping destinations shall be Buyer's facilities only. Drop shipments to other locations are not permitted unless specifically approved in writing by an officer of the Seller.
- **3. DELIVERY** The promised delivery date is the best estimate of the time when the products will be shipped by Seller. Seller assumes no liability for loss of profits, special, incidental or consequential damages due to delays. Lamatel assumes no responsibility for collection of loss or damage claims. Evident loss or damage to a shipment must be indicated by a notation made by the carrier's agent on the delivery receipt before the receipt is signed. The notation must clearly specify the extent of loss, shortage or damage.
- **4. INSPECTION AND ACCEPTANCE OR REJECTION** All products are subject to inspection by Buyer upon delivery and, unless Seller is advised to the contrary in writing within thirty (30) days after delivery, the products will be deemed to have been accepted as conforming with the requirements of the contract and free from all discoverable defects.
- **5. RETURN POLICY** An approved RMA must accompany every return. All returns are subject to a 25% restocking charge and freight charges are to be prepaid by the customer. Returned product must be of current manufacture (produced in the last twelve months), unused, salable, and in original cartons. Any cost incurred by Lamatel to put product in condition for resale will be charged to the customer. This is in addition to the restocking fee. Lamatel cannot accept discontinued, made to order, or custom-built product as part of any return.
- **6. PRICE** Quotation prices are firm for thirty (30) days from the date of the quotation, unless specifically stated to the contrary as part of a particular price quote, and are subject to change without notice after the expiration of this thirty (30) day period. Any variations in quantity specified and/or rate of delivery may necessitate a revision in price. Unless otherwise stated as part of price quote, all prices are E.X.W. factory. All products will be billed at prices in effect at time of shipment and, subject to change without notice, at a minimum billing charge of \$100 net plus transportation charges.



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Tel: 514-907-3179, www.lamatel.com

- **7. PAYMENT** The terms of payment for all orders, unless otherwise agreed upon, are thirty (30) days net (from date of invoice). If, in the judgment of Seller, the financial condition of Buyer at any time does not justify continuation of manufacture, or shipment on the payment terms specified, Seller may require full or partial payment in advance. If shipments are delayed by Buyer, payment dates will nevertheless be computed from the date on which Seller is prepared to make shipment. If payment is received and discount deducted on an invoice or invoices outside of the earned discount period, Lamatel will charge back the unearned discount and Buyer will be liable for immediate repayment. Additionally, a service charge will, without prejudice to any other rights of Seller to demand immediate payment, be added to Buyer's account in the amount of 1.5% per month (or whatever is maximum allowable in the state in which the Buyer is located) on the unpaid past due balance. In the event it becomes necessary to place Buyer's account with a collection agency or attorney, Buyer agrees to pay all cost and reasonable attorney's fees. Buyer further agrees that this is a Tennessee contract construed according to Tennessee law and that any litigation between the parties to this agreement will be exclusively within Tennessee jurisdiction unless otherwise chosen by Lamatel.
- **8. TAXES** Seller's prices do not include any federal, state or local property, sales, use, excise or similar tax. Consequently, in addition to the prices specified, the amount of any present or future sales, use, excise, GST or similar tax imposed due to the sale or products or services shall be paid by Buyer unless Buyer furnished an acceptable tax exemption certificate in advance to Seller.
- **9. CATALOG ITEMS** Seller reserves the right to change the prices, discontinue, modify or alter any and all catalog items at any time without notice. Should such cancellation, modification or alteration prevent the delivery of all or part of any order, Seller will be excused from further delivery.
- **10. TITLE AND RISK OF LOSS** Title and risk of loss to the products supplied hereunder shall pass to Buyer at the F.O.B. shipping point.
- 11. CHANGES For each Buyer requested product change, if approved by Seller, Seller will charge for all costs (\$100 minimum) necessary to make the change. These costs include, but are not limited to, engineering, drafting, order processing, tooling, hardware, re-work and scrap. In addition, any increase in the product price, caused by a product change, shall be charged to Buyer and Buyer agrees to pay same
- 12. CANCELLATION AND RESCHEDULING Cancellation Cancellation of any item on an order by Buyer will be accepted only on the following basis: Any items which upon Seller's receipt of Buyer's written notice of cancellation are within thirty (30) days of completion, as determined by Seller's best estimate at the time of receipt of cancellation notice, which will be completed and paid for by Buyer in full accordance with the regular payment terms. All items which are not within thirty (30) days of completion upon Seller's receipt of Buyer's written notice of cancellation is requested, shall be cancelled for a termination charge of ten (10) percent of the net selling price, plus the cost of labor, materials, and supplies used for the production of such items as overhead expenses determined in accordance with good accounting practice. Re-Scheduling A one-time hold on any item ordered from Seller will be allowed for a maximum of thirty (30) days or upon receipt of notice of a second hold, Seller shall have the right to cancel the order and issue appropriate cancellation charges which shall be paid by Buyer. Orders re-scheduled with Seller's consent will be subject to a price adjustment. In the event production has proceeded to the point Seller deems it cannot reasonably reschedule completion, the product shall be completed, invoiced, and placed in storage at Buyer's expense.
- **13. DELAY** Delay in delivery of any installment shall not relieve Buyer of its obligation to accept remaining installments. If Buyer delays shipment after completion of the products ordered by Buyer, title will pass to Buyer, and Seller will issue an invoice. Storage and handling costs will accrue to Buyer's account until shipment is made.
- 14. FORCE MAJEURE In the event either party is prevented from performing this contract by circumstances beyond its control, and without its fault, including without limitation, strikes, lockouts, fire, explosion, flood, disruption of supply, acts of God, war or other hostilities, acts of terrorism, banking or other systemic economic failure, riot or other civil commotion, embargoes or other governmental acts, orders or regulations, breakdown of machinery, and inability to obtain shipping facilities or supplies, the obligation of Seller to deliver and the obligation of Buyer to accept delivery of products or services hereunder during the period of such disability shall be suspended and the products or services so affected shall by mutual agreement either be eliminated from this contract without liability to either party or reasonable extensions of the time for performance will be granted.

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