ETHERLINE® ACCESS & ETHERLINE® ACCESS KITS

Industrial Communication

⊛ LAPP

LAPP

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P2

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ETHERLINE® ACCESS U16T

Industrial Communication by **LAPP.**

The right solution for every application

Digitalisation is already leading to ever increasing data volumes in production halls. As a result, Ethernet, which has already become a standard in office environments, is also becoming increasingly important in industrial environments. The challenge for industrial data cables lies in reliably transferring ever higher data rates in harsh industrial environments. Benefit from our global product availability at 40+ sites and protocol-independent expert know-how.

As we incorporate products into our customers' automation processes, we are constantly asked to supply innovative ideas to solve important futureoriented challenges. Therefore we offer our customers a wide array of components and system solutions for factory, building and process automation. Our data communication solutions include complete cabling and connectivity systems for integrated networking at the sensor/ actuator and control level right through to the inventory management system.
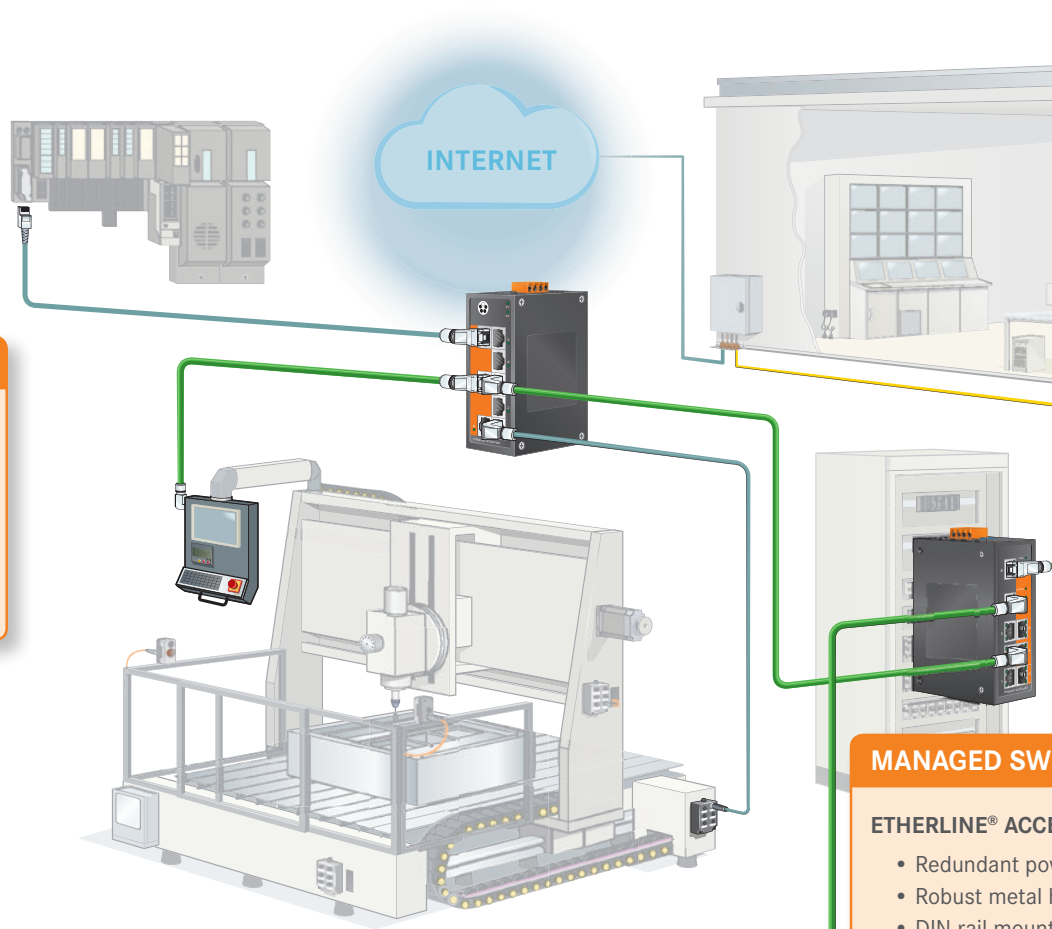
ETHERLINE® ACCESS SERIES - YOUR BENEFITS

- 4 – 16 ports

- Robust and space-saving design for use in control cabinets

- Connections for copper and glass fibre cables

- Portfolio includes more than 20 products

- Cable, Connector, Patchcord and Switch - all from one source
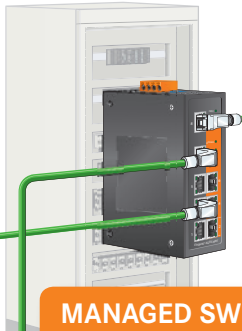
- Products for all common protocol standards

Find out more:
www.lappkabel.com/idc-experience

INTERNET

UNMANAGED SWITCHES
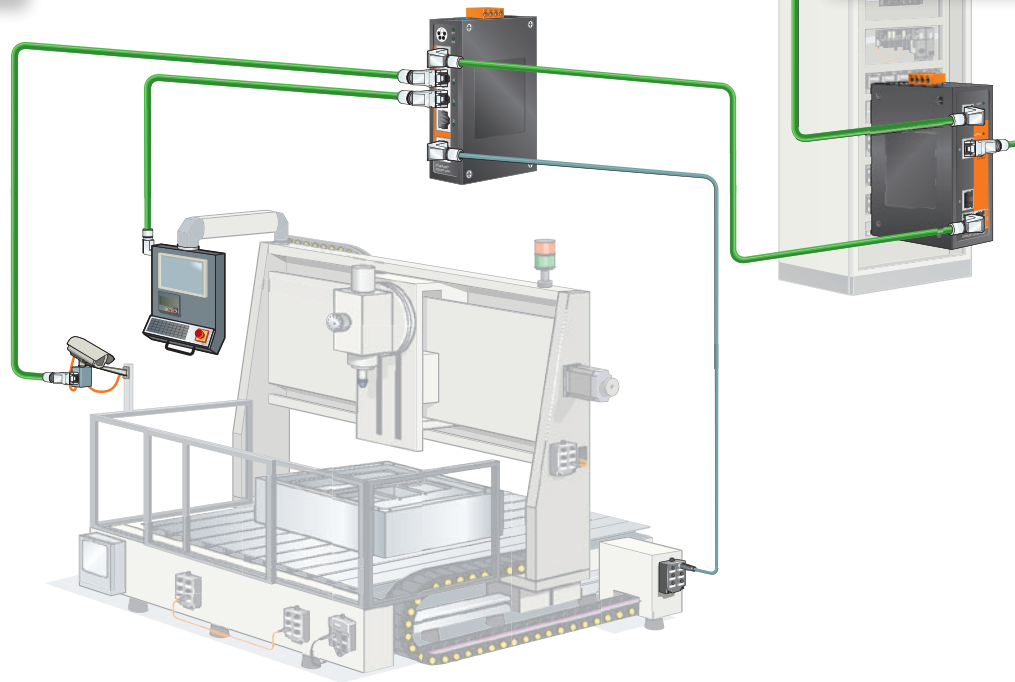
- **ETHERLINE® ACCESS U05T-2GEN**
- **ETHERLINE® ACCESS U08T-2GEN**
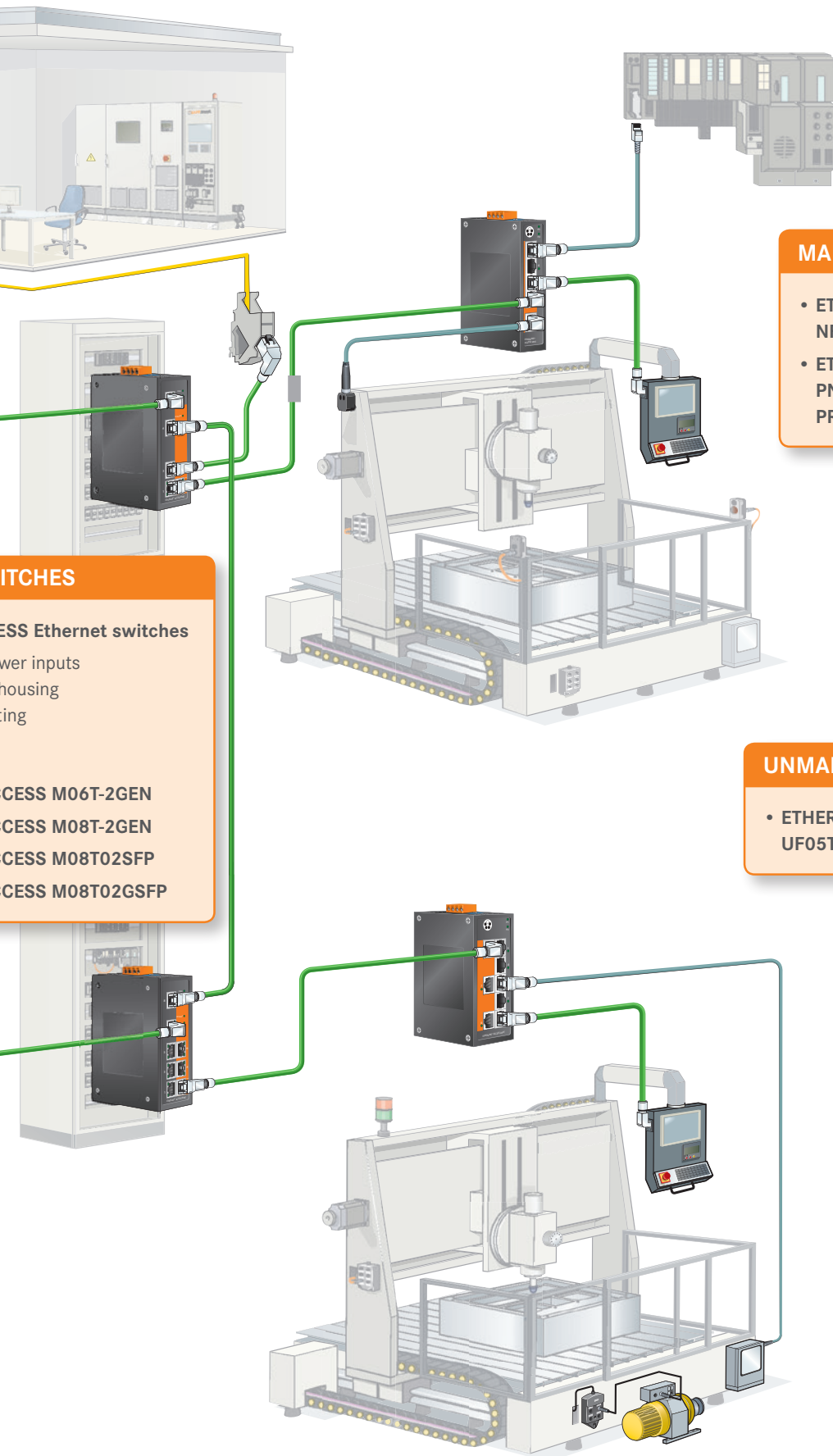- **ETHERLINE® ACCESS U16T**

UNMANAGED SWITCHES

- **ETHERLINE® ACCESS U08GT**
- **ETHERLINE® ACCESS U04TP01T**

MANAGED SW

ETHERLINE® ACC

- Redundant pow
- Robust metal
- DIN rail mount
- Fanless

- **ETHERLINE® AC**
- **ETHERLINE® AC**
- **ETHERLINE® AC**
- **ETHERLINE® AC**

utions for **SMART FACTORIES**

PROFI NET®

MANAGED SWITCHES

- **ETHERLINE® ACCESS NF04T - NAT/Firewall**
- **ETHERLINE® ACCESS PNF04T/PNF08T/PNF16T - PROFINET® switches**

...ITCHES

...ESS Ethernet switches

...wer inputs
...housing
...ting

...ACCESS M06T-2GEN
...ACCESS M08T-2GEN
...ACCESS M08T02SFP
...ACCESS M08T02GSFP

UNMANAGED SWITCHES

- **ETHERLINE® ACCESS UF05T/UF08T/UF16T**

ETHERLINE® ACCESS

Industrial network solutions for Smart Factories

Reliable functioning industrial network components from a single source. Industrial network solutions from LAPP contain data cables, connectors, accessories and industry compatible switches.

Improve your total costs of ownership (TCO) through fast commissioning and thus reduced downtime. Rely on LAPP's renowned quality, high availability and comprehensive services.

General Features

- High availability - redundant power inputs
- High availability - ring redundancy
- Maintenance free - fanless
- Robust metal housing and DIN rail mounting

ETHERLINE® ACCESS M06T-2GEN/M08T-2GEN/ M08T02SFP/M08T02GSFP

CE ⓤ

Features for managed switches

- Simple setup of redundant network-topologies with reconfi guration time < 20ms
- RJ45 ports: 10/100/1000 BaseT(X)
- Packet Buffer Size: 1 Mbit
- Redundant power input: 24 VDC
- Supported protocols: HTTP, Telnet, EtherNet/IP, Modbus/TCP, IPv6, and many more

- Temperature range: -40°C up to 75°C
- UL 61010
- Shock: IEC 60068-2-27
- Freefall: IEC 60068-2-32
- Vibration: IEC 60068-2-6

Benefits

- Most fl exible and globally present solutions from one hand

Article number	Designation	Type	RJ45 Ports	Features
21700125	ETHERLINE® ACCESS M06T-2GEN	Managed	6	
21700126	ETHERLINE® ACCESS M08T-2GEN	Managed	8	
21700136	ETHERLINE® ACCESS M08T02SFP	Managed	8	SFP Port
21700137	ETHERLINE® ACCESS M08T02GSFP	Managed	8	SFP Port

ETHERLINE® ACCESS U05T-2GEN/U08T-2GEN/ U16T/U04TP01T/U08GT

CE ⓤ

Features for unmanaged switches

- RJ45 ports: 10/100/1000 BaseT(X)
- Packet Buffer Size: 1Mbit
- Broadcast storm protection
- Redundant power input: 24 VDC
- Temperature range: -10°C up to 60°C
- UL 61010
- Shock: IEC 60068-2-27

- Freefall: IEC60068-2-32
- Vibration: IEC 60068-2-6

Benefits

- Most fl exible and globally present solutions from one hand

Article number	Designation	Type	RJ45 Ports	Features
21700123	ETHERLINE® ACCESS U05T-2GEN	Unmanaged	5	
21700124	ETHERLINE® ACCESS U08T-2GEN	Unmanaged	8	
21700120	ETHERLINE® ACCESS U16T	Unmanaged	16	
21700138	ETHERLINE® ACCESS U04TP01T	Unmanaged	5	PoE
21700129	ETHERLINE® ACCESS U08GT	Unmanaged	8	Gigabit

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

ETHERLINE® ACCESS PNF04T/PNF08T/PNF16T

Features for PROFINET® switches in compact design

- PROFINET® switches with 4, 8 and 16 ports
- PROFINET® Conformance Class B
- Prioritization of PROFINET® telegramms
- Neighbourhood detection LLDP
- RJ45 ports: 10/100BaseT(X)
- Temperature range: –40°C up to 75°C
- Power supply: 18 – 30 VDC
- UL 61010

Benefits

- Compact design with high port density
- Easy Confi guration via web-interface
- Space saving and industrial grade DIN rail mounting

Article number	Designation	Type	RJ45 Ports	MTBF
21700140	ETHERLINE® ACCESS PNF04T	Managed	4	> 15.21 Years
21700142	ETHERLINE® ACCESS PNF08T	Managed	8	> 13.09 Years
21700143	ETHERLINE® ACCESS PNF16T	Managed	16	> 9.64 Years

ETHERLINE® ACCESS NF04T

Features for NAT router with firewall function

- NAT (Basic NAT, NAPT) and port forwarding
- Integrated Firewall feature
- RJ45 ports: 10/100BaseT(X)
- Temperature range: –40°C up to 75°C
- Power supply: 18 – 30 VDC
- UL 61010

Benefits

- Compact design with high port density
- Reduced installation eff ort in existing networks
- Easy Confi guration via web-interface
- Space saving and industrial grade DIN rail mounting

Article number	Designation	Type	RJ45 Ports	MTBF
21700141	ETHERLINE® ACCESS NF04T	Managed	4	> 14.01 Years

ETHERLINE® ACCESS UF05T/UF08T/UF16T

Features for unmanaged switches in compact design

- Switches with 5, 8 and 16 ports
- RJ45 ports: 10/100BaseT(X)
- Temperature range: –25°C up to 60°C
- Power supply: 18 – 30 VDC
- UL 61010

Benefits

- Compact design with high port density
- PROFINET® enabled device
- Space saving and industrial grade DIN rail mounting

Article number	Designation	Type	RJ45 Ports	MTBF
21700144	ETHERLINE® ACCESS UF05T	Unmanaged	5	> 35.55 Years
21700145	ETHERLINE® ACCESS UF08T	Unmanaged	8	> 29.70 Years
21700146	ETHERLINE® ACCESS UF16T	Unmanaged	16	> 16.62 Years

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ETHERLINE® ACCESS KITS

Industrial Communication Kits

The Industrial Communication Kits from LAPP contain the most important components for setting up your industrial ethernet network at a particularly attractive kit price.

The cables, connectors and switches included enable network installation to be carried out within and between machines.

ETHERLINE® ACCESS KIT PN6-RJ-1/Art. No. 21700135

Cat.7 fixed installation and RJ45 Cat.6_A connectors

This kit contains a Cat.7 Ethernet cable for fixed installation as well as a field-attachable EPIC® DATA RJ45 connector.
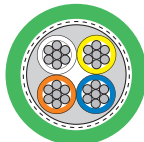
Cable ETHERLINE® PN Cat.7 Y		Connector ED-IE-AX-6$_A$-A-20-FC	
• Cat.7 • 4x2xAWG23/1 • PVC outer sheath • Feste installation • PROFINET® compliant		• RJ45, for strands AWG27/7- AWG22/7 • Cat.6_A • Tool-free assembly: Insulation displacement technology • PROFINET® colour coding • Metal housing	
Item no.	**Quantity**	**Item no.**	**Quantity**
2170605	500m	21700652	20 items

ETHERLINE® ACCESS KIT PN5-RJ-1/Art. No. 21700132

PROFINET® Cat.5 flexible installation and RJ45 Cat.5 connectors

This kit contains a Cat.5e Ethernet cable for flexible installation as well as a field-attachable EPIC® DATA RJ45 connector.
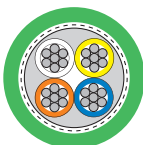
Cable ETHERLINE® PN Cat.5 Y FLEX FC		Connector ED-IE-AX-5-PN-20-FC	
• Cat.5 • 2x2xAWG22/7 • PVC outer sheath • Flexible installation • PROFINET® compliant		• RJ45, for strands AWG27/7-AWG22/7 • Cat.5 • Tool-free assembly: Insulation displacement technology • T568A colour coding • Metal housing	
Item no.	**Quantity**	**Item no.**	**Quantity**
2170886	500m	21700651	1 item

ETHERLINE® ACCESS KIT PN5-M12-1/Art. No. 21700133

PROFINET® Cat.5 flexible installation and M12 connectors

This kit contains a Cat.5e Ethernet cable for flexible installation as well as a field-attachable EPIC® DATA M12 connector.

Cable ETHERLINE® PN Cat.5 Y FLEX FC		Connector ED-IE-AX-M12D-5-PN-67-FC	
• Cat.5 • 2x2xAWG22/7 • PVC outer sheath • Flexible installation • PROFINET® compliant		• M12D, for strands AWG solid: 24-22 and AWG 7 wire: 26-22 • Cat.5 • Tool-free assembly: Insulation displacement technology • PROFINET® colour coding	
Item no.	**Quantity**	**Item no.**	**Quantity**
2170886	500m	21700647	1 item

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ETHERLINE® ACCESS KIT PN5-M12-2 / Art. No. 21700134

PROFINET® Cat.5 highly flexible installation and M12 connectors

This kit contains a Cat.5e Ethernet cable for flexible installation as well as a field-attachable EPIC® DATA M12 connector.

Cable ETHERLINE® FD P FC Cat.5		Connector ED-IE-AX-M12D-5-PN-67-FC	
• Cat.5 • 2x2xAWG22/7 • PUR outer sheath • Flexible installation • PROFINET® compliant		• M12D, for strands AWG solid: 24-22 and AWG 7 wire: 26-22 • Cat.5 • Tool-free assembly: Insulation displacement technology • PROFINET® colour coding	
Item no.	**Quantity**	**Item no.**	**Quantity**
2170894	500m	21700647	1 item

ETHERLINE® ACCESS KIT IE5-RJ-1 / Art. No. 21700131

Cat.5e flexible installation, RJ45 connector and 8 port switches

This kit contains a Cat.5e Ethernet cable for flexible installation as well as a field-attachable EPIC® DATA RJ45 connector and an industrial Ethernet switch, unmanaged with 8 ports. Suitable for setting up networks with up to 100 Mbit/s.

Cable ETHERLINE® Y FLEX Cat.5e		Connector ED-IE-AX-6A-A-20-FC		Active network components ETHERLINE® ACCESS U08T	
• Cat.5e • 4x2xAWG26/7 • PVC outer sheath, UL type CMX approval • Flexible installation		• RJ45, for strands AWG27/7-AWG22/7 • Cat.6$_A$ • Tool-free assembly: Insulation displacement technology • T568A colour coding • Metal housing		• Unmanaged switch • 8 ports RJ45 (10/100 Mbit/s) • Redundant power supply • DIN rail assembly • Metal housing	
Item no.	**Quantity**	**Item no.**	**Quantity**	**Item no.**	**Quantity**
2170486	500m	21700652	20 items	21700119	1 item

ETHERLINE® ACCESS KIT PN5-1 / Art. No. 21700130

PROFINET® Cat.5 fixed installation and 5 port switches

This kit contains a Cat.5e Ethernet cable for fixed installation and an industrial Ethernet switch, unmanaged with 5 ports. Suitable for setting up networks with up to 100 Mbit/s.

Cable ETHERLINE® Y FC Cat.5		Active network components ETHERLINE® ACCESS U05T	
• Cat.5 • 2x2xAWG22/1 • PVC outer sheath, PLTC approval and AWM style 21694 • Fixed installation • PROFINET® compliant		• Unmanaged switch • 5 ports RJ45 (10/100 Mbit/s) • Redundant power supply • DIN rail assembly • Metal housing	
Item no.	**Quantity**	**Item no.**	**Quantity**
2170893	500m	21700118	1 item

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