

Status: 03/2026

**cab**  
*we identify more*



Label printers

**SQUIX**  
LINERLESS

# SQUIX linerless label printers

## Optimum printing in different widths

1.11, 1.12



SQUIX 4.3 L



SQUIX 6.3 L

### Sustainable labeling as a target

Two width formats whenever printing linerless in direct thermal method. A built-in cutter allows continuous materials be cut to specified sizes after printing. This eliminates roll changeovers whenever switching between different label sizes.

Label printers		SQUIX 4.3 L		SQUIX 6.3 L	
Print resolution	dpi	203	300	203	300
Print speed	mm/s max.	250	250	250	250
Print width	mm max.	104	108.4	168	162.6



SQUIX 4.3 L label printer

#### 1 Hinged cover

Material stock can be checked and entire print processes be followed through a large panoramic window.

#### 2 Plungers

One is fixed on the inside next to the chassis. The other can be pushed to the outside margin of a label for optimum print images.

#### 3 Metal chassis

It is the base for component assembly. Made of cast aluminum

#### 4 Print roller

Anti-stick rubber coating

#### 5 Roll retainer

The spring-mounted margin stop provides a screw cap and enables constant tension while materials are fed.

#### 6 Rocker

Spring mounting and guide rollers made of Teflon reduce traction and improve the accuracy of print images.

#### 7 Cutter

It separates even labels of different heights after printing.



## Cutters

An additional demand sensor monitors the removal of cut labels.

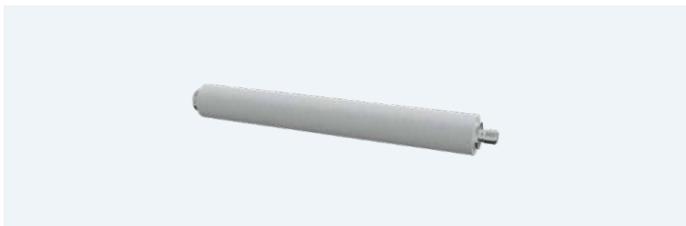
Hardened and titanium-coated blades ensure a long service life. Their surfaces resist to adhesive.

The entire cutter can be easily removed for cleaning purposes, such as blades, the print roller and the print head.

## Print heads

They have been designed for harsh environments and direct thermal print method. Print resolutions are 203 dpi and 300 dpi.

Major data such as operational performance, maximum operation temperature and heating are kept in the memory. The data can be read at the premise.



## Linerless print rollers

DRL4 / DRL6 for continuous linerless materials, anti-stick-coated



## Interfaces

- 1 Port for plugging a **SD memory card**
- 2 **2 USB hosts** for plugging a service key, an USB stick, a keyboard, a barcode scanner, an USB WLAN stick, an external operation panel
- 3 **USB 2.0 Hi-Speed device** for plugging a PC
- 4 **Ethernet 10/100 Mbit/s**
- 5 **RS232-C** 1,200 to 230,400 baud / 8 bit  
Option
- 6 **Digital I/O**  
Printing is triggered via a PLC, a sensor or a hand switch. Status reports and errors are displayed.  
compliant to IEC/EN 61131-2, type 1+3  
The inputs and outputs are galvanically isolated and protect from reverse polarity. The outputs are also short-circuit-proof.

### PNP inputs

Start printing  
Print first label  
Reprint  
Delete print job  
Label removed  
Stop printing  
Pause  
Reset

### PNP, NPN outputs

Unit ready  
Print data available  
  
Paper feed ON  
Label in pickup position  
Collective error

# Operation panel

**Self-explanatory symbols simplify settings and enable printers be operated intuitive and easily**

- 1 **LED:** Power ON
- 2 **Status bar:** receive data, record data stream, SD memory card / USB stick plugged, WLAN, Ethernet, USB slave, time
- 3 **Printer status:** ready, pause, number of labels printed in a print job, label in pickup position, awaiting external start signal
- 4 **USB port** for plugging a service key or a memory stick, to transfer data to the IFFS memory
- 5 **Operation**
  -  Cutter for separating a material

-  Jump to menu
-  Stop and delete all print jobs

-  Reprint
-  Label feed

-  Suspend and continue a print job



Setup



Print parameters



Print position Y



Print speed



Video tutorials

# External operation panel

If the operation panel of a printer cannot be accessed, an additional external one can be plugged.

Same functionality as on a printer

Landscape mode or portrait mode

Operability as targeted, either on an external panel or on a printer

USB 2.0 Hi-Speed device for connecting to a printer

- 1 **LED:** Power ON
- 2 **USB port** for plugging a service key or a memory stick, to transfer data to the IFFS memory
- 3 cab provides specified **USB cables** for power supply. Lengths are 1.8 m to 16 m



## Accessories

<p>2.8</p> 	<p><b>External operation panel</b> If the operation panel of a printer cannot be accessed, an additional external one can be plugged. Same functionality as on a printer Landscape mode or portrait mode Operability as targeted, either on an external panel or on a printer</p> <p>USB 2.0 Hi-Speed device for connecting to a printer cab provides specified <b>USB cables</b> for power supply. Lengths are 1.8 m to 16 m</p>
<p>2.13</p> 	<p><b>SD memory card</b></p>
<p>2.14</p> 	<p><b>USB stick</b></p>
<p>2.15</p> 	<p><b>USB WLAN stick</b> 2.4 GHz 802.11b/g/n Hotspot mode or infrastructure mode</p>
<p>2.16</p> 	<p><b>USB WLAN stick with a rod antenna</b> for extended range of operation 2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac Hotspot mode or infrastructure mode</p>

<p>3.1</p> 	<p><b>Digital I/O interface</b> Printing is triggered via a PLC, a sensor or a hand switch. Status reports and errors are displayed.</p>
<p>3.2</p> 	<p><b>I/O interface plug, SUB-D, 25 pins</b> All control signals connect to the I/O interface using clamping screws</p>
<p>3.3</p> 	<p><b>Label selection - I/O box</b> A maximum of 16 labels per box can be selected from a memory card by a superior control unit, such as a PLC. Two boxes may be plugged. Making use of an I/O box, four inputs and four outputs suffice for implementing PLC processes via abc programming.</p>
<p>4.1</p> 	<p><b>Connecting RS232-C cable</b> 9/9 pins, 3 m</p>

## Retrofit kit for SQUIX standard printers

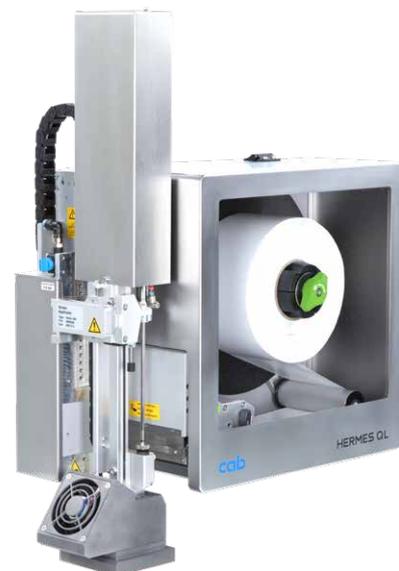


**Both basic printers and peel-off printers can be retrofit for linerless materials.**

A kit consists of  
**a cover plate** above the transport assembly,  
**a guide plate** next to the print roller,  
**a protective tube** above the internal rewinder,  
**a cutter.**

HERMES QL Linerless/ InNoLiner  
print and apply systems

see [www.cab.de/en/linerless](http://www.cab.de/en/linerless)



# Technical data

■ standard □ option

Label printer		Type	SQUIX Linerless 4.3 providing a CSQL cutter		SQUIX Linerless 6.3 providing a CU600L cutter	
Print method			Direct thermal			
Print resolution	dpi		200	300	200	300
Print speed	mm/s max.		250	250	250	250
Print width	mm max.		104	108,4	168	162,6
Print length	mm max.		13,500	6,000	9,000	4,000
Initial print	Distance to locating edge	mm	2.8	1.2	0.5	3.2
<b>Material</b>						
Continuous linerless material wound onto a roll			Direct thermal paper			
Label	Width	mm	20 - 120		46 - 180	
	Height	mm at least	30			
	Thickness	µm max.	110			
Unwinder	Roll outside diameter	mm max.	205			
	Core diameter	mm	38.1 - 76			
	Winding		outside			
<b>Printer dimensions, weight</b>						
Width x Height x Depth		mm	252 x 288 x 460		312 x 288 x 460	
Weight		kg approx.	10			
<b>Material detection</b>						
Sensor			Material provided, material ending			
<b>Electronics</b>						
Processor, 32 bit clock rate		MHz	800			
RAM		MB	256			
IFFS		MB	50			
Port for plugging a SD memory card (SDHC, SDXC)			■			
Battery for indicating time and date, real-time clock			■			
Data kept in memory (e.g. serial numbers) when power turns off			■			
<b>Interfaces</b>						
RS232-C 1,200 to 230,400 baud / 8 bit			■			
USB 2.0 Hi-Speed device for plugging a PC			■			
Ethernet 10/100 Mbit/s IPv4 and IPv6			LPD, RawIP printing, SOAP web service, OPC UA, WebDAV DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC			
2 USB hosts on the operation panel, 2 USB hosts on the back of a unit			Service key, USB stick, USB WLAN stick, USB WLAN stick with a rod antenna, keyboard, barcode scanner, external operation panel			
Digital I/O interface providing 10 inputs and 11 outputs			□			
<b>Operating data</b>						
Voltage			100-240 VAC, 50/60 Hz, PFC			
Consumption of power			< 10 W in standby / 100 W in typical operation / max. 200 W			
Temperature / humidity		Operation	+5 - 40°C / 10 - 85 %, not condensing			
		Stock	0 - 60°C / 20 - 85 %, not condensing			
		Transport	-25 - 60°C / 20 - 85 %, not condensing			
Approvals			CE, UKCA, FCC Class A, ICES-3, cULus, CB, CCC, CoC, BIS, BSMI, KC-Mark, Mexico Reg.			
<b>Operation panel</b>						
Color LCD touchscreen		Diagonal "	4.3			
		Resolution Width x Height px	272 x 480			

Scopes of delivery, design and technical specifications correspond to the date of the printing. Subject to change.

The data provided in the catalog do not represent any warranty or guarantee.

■ standard □ option

Setup options		
Print	Region:	
Label pickup	- Language	
Interfaces	- Country	
	- Keyboard	
	- Time zone	
Errors	Time	
	Display:	
	- Brightness	
	- Power saving mode	
	- Orientation	
	Interpreter	
Status bar		
Receive data	WLAN	
Record data stream	Ethernet	
SD memory card plugged	USB slave	
USB stick plugged	Time	
Controls		
	Material provided, material ending	
	Print head voltage	
	Print head temperature	
	Print head open	
	No final cutter position	
	Cover off cutter	
	Label removed	
Test routines		
System diagnostics	upon startup, detection of print head included	
Information display, test printout, analysis	Status printout	Test grid
	Fonts list	Label profile
	List of units	List of events
	WLAN status	Monitor mode
	Print data recorded on memory card	
Status reports	- Printout of print durations, running hours, etc. - Status of a unit requested by software command - Display of errors related to a network, barcode or peripheral device, links missing, etc.	
Fonts		
Integral	5 bitmap fonts: 12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B	7 vector fonts: AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721, Bold
For memory	TrueType	
Sets of characters	Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869 EBDIC 500 ISO 8859-1 to -10 and -13 to -16 WinOEM 720 UTF-8 DEC MCS	
	MacRoman	KOI8-R
	Western European	Cyrillic
	Eastern European	Greek
	Chinese, simplified	Latin
	Chinese, traditional	Hebrew
	Thai	Arabian
Bitmap	1 mm to 3 mm wide and high Zoom factors 2 to 10 0°, 90°, 180°, 270° orientations	
Vector / TrueType	0.9 mm to 128 mm wide and high Continuous zoom 360° orientation in steps of 1°	
Styles	bold, italic, underlined, outline, inverse - depending on the font type	
Character spacing	proportional or monospace	
Graphics		
Elements	lines, arrows, rectangles, circles, ellipses - filled and gradient	
Formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG	

Codes		
1D barcodes, linear	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C EAN 8, 13 EAN/UCC 128/GS1-128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM HIBC	Interleaved 2/5 Ident and routing code of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0
2D codes, stacked codes	DataMatrix DataMatrix Rectangle Extension QR code Micro QR code rMQR code GS1 QR code GS1 DataMatrix GS1 Digital Link (QR and DataMatrix) PDF 417 Micro PDF 417 UPS MaxiCode GS1 DataBar Aztec Codablock F Dotcode RSS 14 truncated, limited, stacked, stacked omni-directional	All codes may vary in height, modular width and ratio; 0°, 90°, 180°, 270° orientations Feasibility of check digits, plain text printouts and start/stop coding depending on the type of code
Software		
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print	■ ■ □ □
Running also with	CODESOFT Software Spectrum NiceLabel BarTender	in preparation
Stand-alone operation		■
Windows printer drivers certified WHQL for	Windows 10 Windows 11	Server 2016 Server 2019 Server 2022 Server 2025
Apple printer drivers	Mac OS X 10.6 or any later release	
Linux printer drivers	CUPS 1.2 or any later release	
Programming	JScript printer language abc Basic Compiler ZPL II (Datastream be tested in advance)	■ ■ □
Integration	SAP Database Connector	■ ■
Administration	Printer control Configuration on the Intranet and Internet	■ ■

Free and Open Source software in cab products:

[www.cab.de/opensource](http://www.cab.de/opensource)

## OPC UA

All the latest cab printers have been designed ready for interacting with machines and components of different manufacturers in industrial plants. An OPC UA server is part of the firmware.

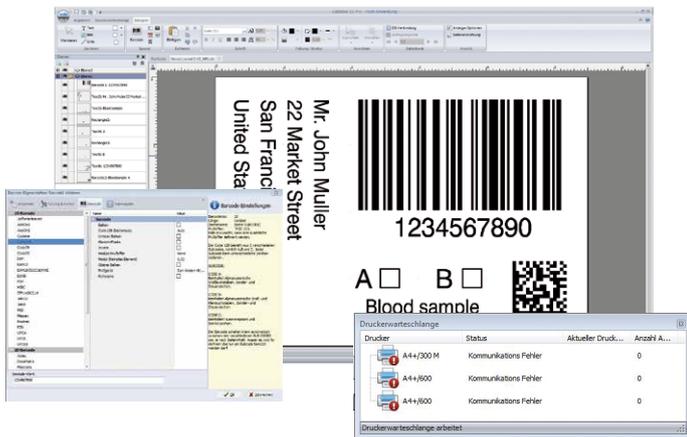


See further information on  
[www.cab.de/en/opcu](http://www.cab.de/en/opcu)

## cablabel S3 software

### Design, print, administrate

cablabel S3 opens up the full potential of cab devices. Defining a label is first. Modular design adapts cablabel S3 to requirements step by step. Plug-ins are embedded. Native JScript programming, for example, is supported by the JScript Viewer. The designer user interface and JScript codes synchronize in real time. Optional features can be integrated, such as the Database Connector or barcode verifiers.



See further information on [www.cab.de/en/cablabel](http://www.cab.de/en/cablabel)

## Printer control

### Drivers



cab provides drivers to control a printer with software other than cablabel S3.



Free download on [www.cab.de/en/support](http://www.cab.de/en/support)



### Programming

JS

#### JScript

cab printers embed JScript language.

cab

Download free manual on [www.cab.de/en/programming](http://www.cab.de/en/programming)



#### abc Basic Compiler

Integral to the firmware, abc in addition to JScript enables advanced programming before data are edited for printout. For example, external printer languages can be replaced without intervening in a print job in progress. Data may be imported as well from other systems such as scales, barcode scanners or PLC.

### Connecting to SAP®

Labels can be printed from SAP<sup>1)</sup> on cab devices and systems. There are various methods:

- Printing with SAPscript
- Printing with SmartForms
- Printing with Adobe Interactive Forms

See instructions in detail on [www.cab.de/en/sap](http://www.cab.de/en/sap)

## Stand-alone operation

This operating mode enables a printer select and print labels while not connected to a host system. Labels can be designed using software such as cablabel S3 or a text editor on a PC. Label formats, texts, graphics and data of a database can be stored on a memory card, a USB stick or a printer's IFFS memory. Only variable data are sent by a keyboard, a barcode scanner, a scale or any other host system to a printer, or be recalled by the Database Connector from a host and printed.



## Printer administration



### Configuration on the Intranet and Internet

Integral HTTP / FTP servers enable a printer be controlled or configured, firmware be updated and memory cards be administrated using standard applications such as a web browser or a FTP client. Administrators and operators on behalf of SNMP / SMTP are notified of states, alerts and errors by email or SNMP datagrams. Time and date are synchronized by a time server.



### Database Connector

Printers in a network may access data from a ODBC / OLEDB database and print it on labels. Data can be rewritten to a database while print jobs are in progress.

<sup>1)</sup> SAP and associated logos are trademarks or registered trademarks of SAP SE.

# Continuous linerless materials

## Linerless RL540

On packaging of all kinds in industry and logistics;  
a 2 mm adhesive-free area is required along margins

## Linerless P98

On packaging of all kinds in industry and logistics;  
full-area adhesive

All materials are free from bisphenols  
and suit for use in food business.



Material	Linerless RL540	Linerless P98
Type	Direct thermal paper, white	Direct thermal paper, white
Thickness	approx. 80 µm	approx. 82 µm
Adhesive	self-adhesive acrylic	self-adhesive acrylic
Initial grip	moderate	very strong
Food recommendation	not specified	BfR XIV or FDA 21 CFR 175.105
Application temperature	from 5°C	from 5°C
Service		
- Temperature	-10°C - 100°C	-20°C - 80°C
Shelf life	12 months	24 months
- Temperature	23°C ± 5°C	20°C ± 5°C
- humidity, not condensing	50 % ± 10 %	45 % ± 5 %
Application	indoor	indoor
Print speed	mm/s max. 200	250
Material length	m 280	280
Roll diameter	mm 200	200
Core diameter	mm 76	76
Winding	outside	outside

Designation	Item no.	Material width mm	Material length m
RL540 continuous linerless material / 58 mm x 280 m	<b>5780200</b>	58	280
RL540 continuous linerless material / 80 mm x 280 m	<b>5780201</b>	80	280
RL540 continuous linerless material / 105 mm x 280 m	<b>5780202</b>	105	280
P98 continuous linerless material / 60 mm x 280 m	<b>5780220</b>	60	280
P98 continuous linerless material / 80 mm x 280 m	<b>5780221</b>	80	280
P98 continuous linerless material / 100 mm x 280 m	<b>5780222</b>	100	280
P98 continuous linerless material / 148 mm x 280 m	<b>5780223</b>	148	280

Further widths upon request

# Delivery program

## Label printers

Pos.	Item no.	Designation
1.3	<b>5977080</b>	SQUIX 4.3/200 L label printer
	<b>5977081</b>	SQUIX 4.3/300 L label printer
1.5	<b>5977082</b>	SQUIX 6.3/200 L label printer
	<b>5977083</b>	SQUIX 6.3/300 L label printer

Scope of delivery	
	Label printer Type E+F power cable, 1.8 m Connecting USB cable, 1.8 m Service manuals DE / EN Continuous linerless material, 105 mm wide, 100 m long
Provided online	
	Instructions in 30 languages Configuration manuals DE / EN / FR Service manuals DE / EN Spare parts lists DE / EN Programming manual EN Windows printer drivers certified WHQL for Windows 10 Server 2016 Windows 11 Server 2019 Server 2022 Server 2025 Apple Mac OS X printer drivers DE / EN / FR Linux printer drivers DE/EN/FR cablabel S3 Lite software cablabel S3 Viewer Database Connector
<a href="https://setup.cab.de/en">https://setup.cab.de/en</a>	

## Wear parts

Pos.	Item no.	Designation
2.1	<b>5977382.001</b>	Print head 4.3/200
	<b>5977383.001</b>	Print head 4.3/300
	<b>5977386.001</b>	Print head 6.3/200
	<b>5977387.001</b>	Print head 6.3/300
2.2	<b>6012025.001</b>	DRL4 print roller
	<b>5987876.001</b>	DRL6 print roller
2.3	<b>5984573.001</b>	CSQ cutter blade
	<b>5987876.001</b>	CSQ cutter bar
2.4	<b>5988799.001</b>	CU600L rotary cutter
	<b>5988795.001</b>	CU6 linear cutter

## Accessories

Pos.	Item no.	Designation
2.8	<b>6010186</b>	External operation panel
	<b>5907718.001</b>	Connecting USB cable, 1.8 m
	<b>5907730.001</b>	Connecting USB cable, 3 m
	<b>5907750.001</b>	Connecting USB cable, 5 m
	<b>5907760.001</b>	Connecting USB cable, 11 m
<b>5907765.001</b>	Connecting USB cable, 16 m	
2.13	<b>5977370</b>	SD memory card
2.14	<b>5977730</b>	USB stick
2.15	<b>5978912.001</b>	USB WLAN stick 2.4 GHz 802.11b/g/n
2.16	<b>5977731</b>	USB WLAN stick with a rod antenna 2.4 GHz 802.11b/g/n + 5 GHz a/n/ac
Pos.	Item no.	Interfaces
3.1	<b>5977767</b>	Digital I/O interface
3.2	<b>5917651</b>	I/O interface plug SUB-D, 25 pins
3.3	<b>5948205</b>	Label selection - I/O box
Pos.	Item no.	Connecting cable
4.1	<b>5550818</b>	Connecting RS232-C cable 9/9 pins, 3 m

## Retrofit kit for SQUIX standard printers

Pos.	Item no.	Designation
4.2	<b>5987880</b>	Retrofit kit SQUIX 4L
	<b>5987885</b>	Retrofit kit SQUIX 6L



See further information on  
[www.cab.de/en/linerless](http://www.cab.de/en/linerless)

# Overview of cab products

Label printers  
**MACH1, MACH2**



Label printers  
**EOS 2**



Label printers  
**EOS 5**



Label printers  
**MACH 4S**



Label printers  
**SQUIX 2**



Label printers  
**SQUIX 4**



Label printers  
**SQUIX 6.3**



Label printers  
**SQUIX 8.3**



Label printers  
**XD Q double-sided**



Label printers  
**XC two-colored**



Print and apply systems  
**HERMES Q**



Print and apply systems  
**Hermes C two-colored**



Tube labeling systems  
**AXON 1**



Print modules  
**PX Q**



Labels and ribbons



Label software  
**cablabel S3**



Label dispensers  
**HS, VS**



Labeling heads  
**IXOR**



Marking lasers  
**XENO 4**



Laser marking systems



Germany

**cab Produkttechnik GmbH & Co KG**

Karlsruhe

Phone +49 721 6626 0

[www.cab.de](http://www.cab.de)

France

**cab Technologies S.à.r.l.**

Niedermodern

Phone +33 388 722501

[www.cab.de/fr](http://www.cab.de/fr)

USA

**cab Technology, Inc.**

Chelmsford, MA

Phone +1 978 250 8321

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