

Status: 04/2026

cab
we identify more



Label printers

SQUIX
LINERLESS

SQUIX linerless label printers

1.9, 1.10



SQUIX 4.3 L



SQUIX 6.3 L

60 percent more labels per roll

compared to self-adhesive labels providing a liner

No disposal of liner materials

Variable label sizes by programmable material-saving function

Labels are automatically cut following the final print line and an offset.

Entirely compatible with standard SQUIX label printers in terms of functionality and dimensions

Basic devices and peel-off devices can both be retrofit linerless material processing.

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

1 Hinged cover

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

2 Print head pressing system

Direct thermal printing requires less printhead pressure, resulting in a longer life cycle of the latter.

3 Print head 4.3 / 6.3

Durable and suited best for linerless printing

4 Rugged metal chassis

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

5 DRL print roller

Specifically designed for linerless materials

6 Cutter

Printed labels are separated even to different heights.

Material sensor

It detects a material and whether it is running out on the printer.

7 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.



SQUIX 4.3 L label printer



Cutter

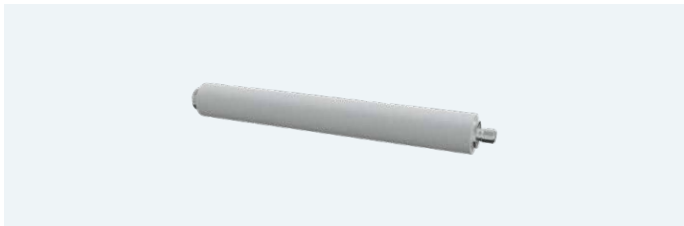
It is included upon delivery. An additional demand sensor monitors the removal of cut labels.

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

Print head

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-coating



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



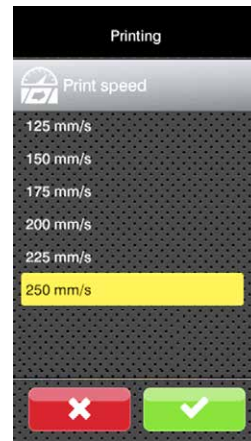
Setup



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>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</p> <p>USB 2.0 Hi-Speed device for connecting to a printer cab provides specified USB cables for power supply. Lengths are 1.8 m to 16 m</p>
<p>2.13</p> 	<p>SD memory card</p>
<p>2.14</p> 	<p>USB stick</p>
<p>2.15</p> 	<p>USB WLAN stick 2.4 GHz 802.11b/g/n Hotspot mode or infrastructure mode</p>
<p>2.16</p> 	<p>USB WLAN stick with a rod antenna 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>Digital I/O interface Printing is triggered via a PLC, a sensor or a hand switch. Status reports and errors are displayed.</p>
<p>3.2</p> 	<p>I/O interface plug, SUB-D, 25 pins All control signals connect to the I/O interface using clamping screws</p>
<p>3.3</p> 	<p>Label selection - I/O box 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>Connecting RS232-C cable 9/9 pins, 3 m</p>

Retrofit kit for SQUIX standard printers

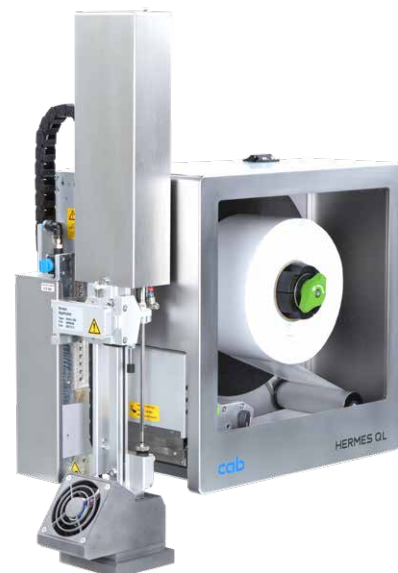


Both basic printers and peel-off printers can be retrofit for linerless materials.

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,
a linerless print roller.

HERMES QL Linerless/ InNoLiner
print and apply systems

see 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
Material						
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			
Printer dimensions, weight						
Width x Height x Depth		mm	252 x 288 x 460		312 x 288 x 460	
Weight		kg approx.	10		14	
Material detection						
Sensor			Material provided, material ending			
Electronics						
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			■			
Interfaces						
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			□			
Operating data						
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.			
Operation panel						
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

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.

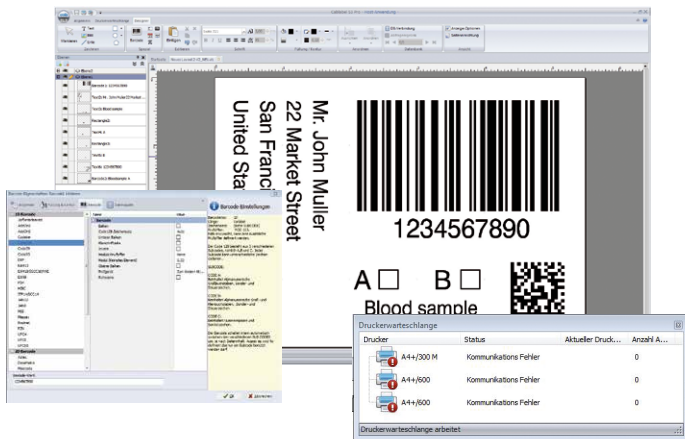


See further information on
www.cab.de/en/opcu

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

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 control

Drivers



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



Free download on www.cab.de/en/support



Programming

JS

JScript

cab printers embed JScript language.



Download free manual on 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 SAP¹⁾ 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

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.

¹⁾ SAP and associated logos are trademarks or registered trademarks of SAP SE.

Continuous linerless materials

RL540 linerless

Packaging of all kinds in industry and logistics;
2 mm adhesive-free area along margins

P98 linerless

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

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

- CO₂ reduced
- waste avoided



Material	RL540 linerless	P98 linerless
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	300
Roll diameter	mm 200	200
Core diameter	mm 76	76
Winding	outside	outside


Designation	Item no.	Material width mm	Material length m	PU1 Cardboard	PU2 Pallet
RL540 continuous linerless material / 58 mm x 280 m	upon request	58	280	4 rolls	64 rolls
RL540 continuous linerless material / 80 mm x 280 m	upon request	80	280		
RL540 continuous linerless material / 105 mm x 280 m	5780202	105	280		
P98 continuous linerless material / 60 mm x 300 m	upon request	60	300	4 rolls	64 rolls
P98 continuous linerless material / 80 mm x 300 m	upon request	80	300		
P98 continuous linerless material / 100 mm x 300 m	5780222	100	300		
P98 continuous linerless material / 148 mm x 300 m	upon request	148	300		

Further widths upon request

Delivery program

Label printers

Pos.	Item no.	Designation
1.9	5977080 5977081	SQUIX 4.3/200 L label printer SQUIX 4.3/300 L label printer
1.10	5977082 5977083	SQUIX 6.3/200 L label printer 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
	https://setup.cab.de/en

Wear parts

Pos.	Item no.	Designation
2.1	5977382.001 5977383.001 5977386.001 5977387.001	Print head 4.3/200 Print head 4.3/300 Print head 6.3/200 Print head 6.3/300
2.4	6012025.001 5987876.001	DRL4 print roller DRL6 print roller
1.17	5984573.001 5978541.001	CSQL cutter blade CSQL cutter bar
1.18	5948329.001 5948327.001	CU600L circular blade CU600L linear blade

Accessories

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

Retrofit kit for SQUIX standard printers

Pos.	Item no.	Designation
1.19	5987880 5987885	Retrofit kit SQUIX 4L Retrofit kit SQUIX 6L



See further information on
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



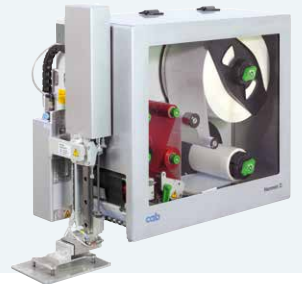
Label printers
XC two-colored



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



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