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Label printers
for printing with two colors

XC Q
Made in Germany

Label printers

for printing with two colors

1.1



XC Q4 providing a tear-off plate

All materials wound on a roll can be printed.

Label printer		XC Q4
Print resolution	dpi	300
Print speed	mm/s max.	150
Print width	mm max.	105.7
Width of a material	mm max.	114

1.2



XC Q4 providing a CSQ 402 cutter

Paper labels and self-adhesive labels, cardboard and synthetic materials can be cut.

A CSQ can be pivoted to simplify material changeover.

A tray allows collecting a maximum of 50 labels.

Label heights can be adjusted.

Label printer		XC Q4-C2
Print resolution	dpi	300
Print speed	mm/s max.	150
Print width	mm max.	105.7
Width of a material	mm max.	114
Tray	Materials as long as mm	100

1.3



XC Q6.3 providing a tear-off plate

All materials wound on a roll can be printed.

Label printer		XC Q6.3
Print resolution	dpi	300
Print speed	mm/s max.	150
Print width	mm max.	162.6
Width of a material	mm max.	180

In detail



- **300 dpi**, printable as wide as 105.7 mm or 162.6 mm
- **Heating** can be assigned separately to each print head.
- If **printing only with print head 2**, print head 1 is lifted by menu control.
- **Automated ribbon saving** is provided on print head 1. The print head is lifted and the ribbon is stopped during material feed. Opening or closing the print head may result in stress marks on wax ribbons.
- **Continuous print images** when cutting at no backfeed
- **Optimized printing**, so that multiple print jobs can be printed seamless
- **CSQ 402 cutters** are provided for XC Q4 printers, **CU600 cutters** for XC Q6.3.
- Find **documentation** on the Internet. DVDs are no longer part of delivery.



Technical data

● typical ■ standard □ option

Label printer			XC Q4	XC Q6.3
Guidance of materials			aligned to the left	
Print method Thermal transfer			●	
Print resolution dpi			300	300
Print speed mm/s max.			150	150
Print width mm max.			105.7	162.6
Automated ribbon saving			●	●
Material¹⁾				
Paper, cardboard, synthetics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec			●	
Textile tape			●	-
Finishing Roll			●	
Roll diameter mm max.			300	
Core diameter mm			76	
Winding			outside or inside	
Label Width mm			20 - 116	46 - 176
Height mm at least			10	
Thickness mm max.			0.1	
Liner Width mm			24 - 120	50 - 180
Thickness mm			0.03 - 0.16	
Continuous Width mm			24 - 120	50 - 180
Thickness mm			0.03 - 0.5	
Weight (cardboard) g/m ² max.			300	
Ribbon ²⁾ Color side			outside or inside	
Roll diameter mm max.			80	
Core diameter mm			25.4	
Length m max.			450	
Width mm max.			114	170
Printer dimensions, weights				
Width x Height x Depth mm			248 x 395 x 554	358 x 395 x 554
Weight kg			22	24
Label sensors, position indicators				
Transmissive sensor detecting			labels, punch marks, materials ending, print marks on translucent materials	
Reflective sensor from below or top detecting			labels, materials ending, print marks on non-translucent materials	
Sensor distance to locating edge mm			5 - 60	
Material passage mm max.			2	
Electronics				
Processor, 32 bit clock rate MHz			800	
RAM MB			256	
IFFS MB			50	
Port for plugging a SD memory card (SDHC, SDXC) GB max.			512	
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 to plug 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 control 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 control panel	
USB host, 24 VDC, for peripheral plugging			■	
Digital I/O interface providing 8 inputs and 8 outputs			□	

¹⁾ Specifications are standards. Operations including small, slim, thick or stiff materials need testing, so do strongly adhesive labels.

²⁾ A ribbon should be at least as wide as the liner material.

Technical data

■ standard □ option

Operating data	
Voltage	100-240 VAC, 50/60 Hz, PFC
Consumption of power	<10 W in standby / 100 W in typical operation / max. 200W
Temperature / Operation	+5 - 40°C / 10 - 85 %, not condensing
humidity	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, BSMI, Mexico Reg.
	in preparation BIS, KC-Mark
Control panel	
Color LCD touchscreen	Diagonal " 4.3
	Resolution Width x Height px 272 x 480
Setup options	
Print Labels	Region: - Language
Ribbon	- Country
Tear off	- Keyboard
Cut	- Time zone
Interfaces	Time
Error	Display: - Brightness
	- Power saving mode
	- Orientation
	Interpreter
Status bar	
Receive data	WLAN
Record datastream	Ethernet
Warning to a ribbon ending	USB Slave
SD memory card plugged	Time
USB stick plugged	
Controls	
Ribbon 1/2	Print head 1/2
- Winding	- Voltage
- Prior warning	- Temperature
- End of ribbon	- open
Running out of material	Peripheral error
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
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, as well as links missing
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 Swiss 721 Bold
For storing	TrueType fonts
Sets of characters	Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869 EBCDIC 500 ISO 8859-1 to -10 and -13 to -16 WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R
	Western European Eastern European Chinese, simplified Chinese, traditional Thai
	Cyrillic Greek Latin Hebrew Arabian

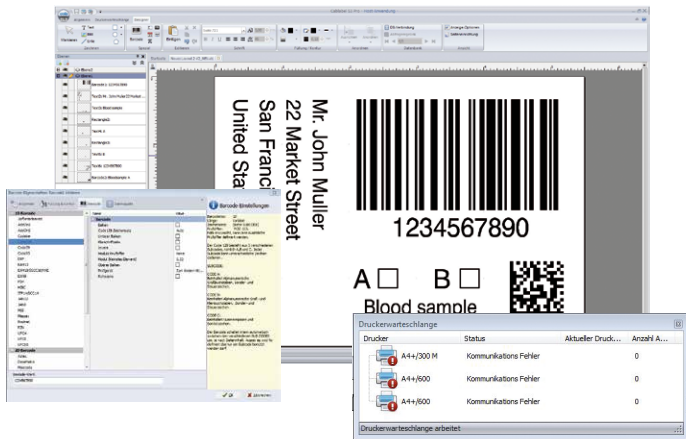
Fonts	
Bitmap	1 mm to 3 mm wide and high Zoom factors 2 to 10 0°, 90°, 180°, 270° orientations
Vector / TrueType	0.9 mm to 128 mm wide and high Continuous zoom 360° orientation in steps of 1°
Styles	bold, italic, underlined, outline, inverse - depending on the font type
Character spacing	proportional or monospace
Graphics	
Elements	lines, arrows, rectangles, circles, ellipses - filled or 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 code, stacked codes	DataMatrix DataMatrix Rectangle Extension QR-Code Micro QR-Code GS1 QR-Code GS1 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 depends on the type of code.
Software	
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print
Running also with	CODESOFT Loftware Spectrum NiceLabel BarTender
Stand-alone operation	
Windows printer drivers certified WHQL for	Windows 10 Windows 11
	Server 2016 Server 2019 Server 2022
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

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/cablabe

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

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

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.

Printer administration

Configuration on the Intranet und 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.

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/opcua

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



Accessories

Products are plugged or screwed to a printer by a customer.

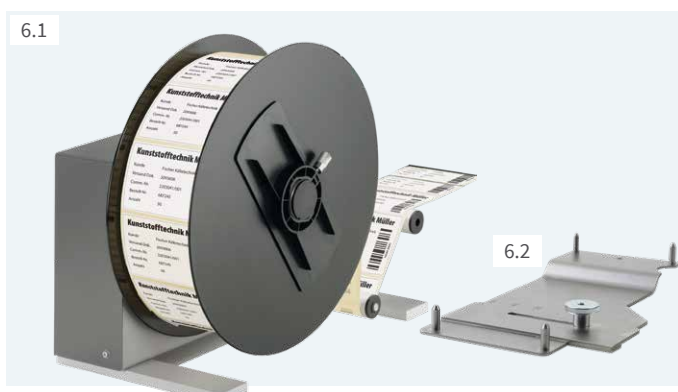
2.1		SD memory card
2.2		USB stick
2.3		USB WLAN stick 2.4 GHz 802.11b/g/n Hotspot mode or infrastructure mode
2.4		USB WLAN stick with a rod antenna for extended range of operation 2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac Hotspot mode or infrastructure mode
2.6		I/O interface plug SUB-D, 25 pins All control signals connect to the I/O interface using clamping screws.

Options

Parts or units to perform special functions are assembled to a printer in addition to or instead of standards. If order implies options be assembled ex factory, the part numbers of such printers and options are added by .250. Options delivered separately are added by .001.

2.7		Digital I/O interface Labeling is triggered via a PLC, a sensor or a hand switch. Status reports and errors are displayed simultaneously.
2.8		Fanfold guide Fanfold labels are inserted behind the print head. A guide and a brake enable labels been fed reliably to the print mechanics.

Cutting, rewinding



Cutters

Paper, cardboard, textile and synthetic materials can be cut.

A CSQ can be pivoted to simplify material changeover. A tray allows collecting a maximum of 50 labels. Label heights can be adjusted.

A CU400 is still recommended with textile operations.

Cutter	CSQ 402	CU400	CU600
Operated with	XC Q4	XC Q4	XC Q6.3
Material:			
Width mm max.	120	120	180
Passage height mm max.	2.0	2.0	2.0
Weight (cardboard) gr/m ² max.	300	300	300
Thickness mm max.	1.1	1.1	1.1
Cutting length mm at least	10	5	5
Tray Materials as wide as mm	100	100	-
Performance cuts/min at use of material 1 mm high, no backfeed	200	100	100
Controls	no final cutter position		
	cutter cover removed	-	-

External ER4, ER6 rewinders, power supply built in
Label webs may be wound outside or inside. They are wound consistently and tight by electronic control, with a pendulum arm.


External rewriter	ER4/300	ER6/300
Operated with	XC Q4	XC Q6.3
Width of a material mm max.	120	180
Roll diameter mm max.	300	
Core diameter mm	40 if a winder axle or a cardboard core are in use 76 if a cardboard core is in use with an adapter	
Winding	outside or inside	
Adapter kit	<input type="checkbox"/>	<input type="checkbox"/>

Delivery program

Label printers

Pos.	Item no.	Designation
1.1	6011520	XC Q4 label printer
1.2	6011520.250 5984565.250	XC Q4 label printer with a CSQ 402 cutter, tray included
1.3	6011525	XC Q6.3 label printer

Scope of delivery
Label printer Type E+F power cable, 1.8 m Connecting USB cable, 1.8 m Instructions DE / EN

Provided online
 <p>Instructions 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 Apple Mac OS X printer drivers DE / EN / FR Linux printer drivers DE / EN / FR cablabel S3 Lite software cablabel S3 Viewer Database Connector</p> <p>https://setup.cab.de/en</p>

Wear parts

Pos.	Item no.	Designation
	5987089.001 5987097.001	Print head 4/300 X Print head 6.3/300 X
	5954180.001 5954245.001	DR4 print roller DR6 print roller

Accessories

Pos.	Item no.	Designation
2.1	5977370	SD memory card
2.2	5977730	USB stick
2.3	5978912	USB WLAN stick 2.4 GHz 802.11b/g/n
2.4	5977731	USB WLAN stick with a rod antenna 2.4 GHz 802.11b/g/n + 5 GHz a/n/ac
2.6	5917651	I/O interface plug SUB-D, 25 pins

Options

Pos.	Item no.	Designation
2.7	5551447.xxx	Digital I/O interface
2.8	6011930.xxx	Fanfold guide

.xxx - .250 assembled to a printer
.001 separate delivery
resp. spare part

Cutting, rewinding

Pos.	Item no.	Designation
3.1	5984565	CSQ 402 cutter, tray included
5.1	5978900	CU400 cutter, tray included mit Auffangbox
	5979033	CU600 cutter
6.1	5946090	External ER4/300 rewinder
	5946420	External ER6/300 rewinder
6.2	6011796	Adapter kit XC Q4
	6011797	Adapter kit XC Q6.3

Scopes of delivery, designs and technical data correspond to the date of this publication. They are subject to change. Catalogue data do not represent any warranty or guarantee.



See current data on
www.cab.de/en/xcq

Delivery program

Label software

Pos.	Item no.	Designation	
11.7		Bundle cablabel S3 Lite (download on cab.de/en)	
	5588001	cablabel S3 Pro 1 WS	
	5588100	cablabel S3 Pro 5 WS	
	5588101	cablabel S3 Pro 10 WS	
	5588150	cablabel S3 Pro 1 additional licence	
	5588151	cablabel S3 Pro 4 additional licences	
	5588152	cablabel S3 Pro 9 additional licences	
		in preparation	cablabel S3 Print Server
	11.10	9008486	Programming manual EN, printed copy



User languages

Language	Instruc- tions	Control panel	Windows driver	Service manual	cablabel S3
European Union					
Bulgarian	X	X	X		X
Danish	X	X	X		
German	X	X	X	X	X
Estonian	X	X	X		
Finnish	X	X	X		
French	X	X	X		X
Greek	X	X	X		
English	X	X	X	X	X
Italian	X	X	X		X
Croatian	X	X	X		X
Latvian	X	X	X		
Lithuanian	X	X	X		
Dutch	X	X	X		
Polish	X	X	X		X
Portuguese	X	X	X		
Romanian	X	X	X		
Swedish	X	X	X		
Slovak	X	X	X		
Slovenian	X	X	X		
Spanish	X	X	X		X
Czech	X	X	X		X
Hungarian	X	X	X		
Europe (Non-EU)					
Macedonian	X	X	X		
Norwegian	X	X	X		
Russian	X	X	X		X
Serbian	X	X	X		
Turkish	X	X	X		
Asia					
Chinese (simplified)	X	X	X		X
Chinese (traditional)	X	X	X		X
Japanese	X	X	X		
Korean	X	X	X		X
Thai	X	X	X		
Middle East					
Persian		X			
Arabian		X			

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



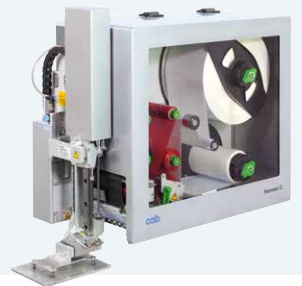
Label printers
XC two-colored



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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