cab
we identify more

Label printers
for printing with two colors

XC Q
Made in Germany

Label printers
for printing with two colors

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

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
Print length		mm max.	3,000	2,000
Automated ribbon saving			●	●
Material[1]				
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

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 / 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, 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	Region:
	Labels	- 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:	7 vector fonts:
	12 x 12 dots	AR Heiti Medium GB-Mono
	16 x 16 dots	CG Triumvirate Condensed Bold
	16 x 32 dots	Garuda
	OCR-A	HanWangHeiLight
	OCR-B	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

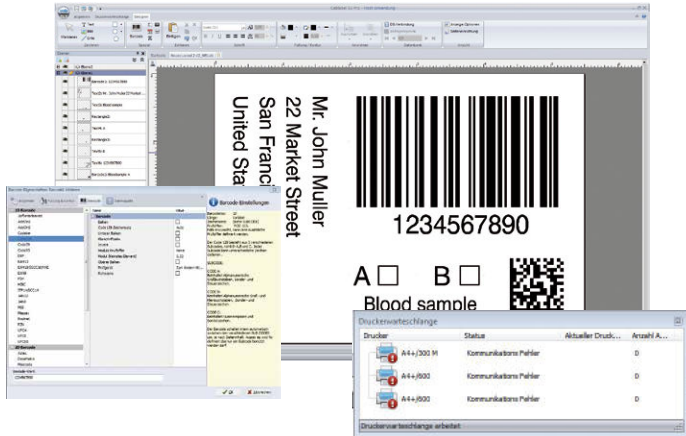|	
Western European	Cyrillic
Eastern European	Greek
Chinese, simplified	Latin
Chinese, traditional	Hebrew
Thai	Arabian

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	Interleaved 2/5
	Code 39 Full ASCII	Ident and routing code
	Code 128 A, B, C	of Deutsche Post
	EAN 8, 13	Codabar
	EAN/UCC 128/GS1-128	JAN 8, 13
	EAN/UPC Appendix 2	MSI
	EAN/UPC Appendix 5	Plessey
	FIM	Postnet
	HIBC	RSS 14
		UPC A, E, E0

2D code, 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 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	Server 2016	
	Windows 11	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/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

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 SAP[1] 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

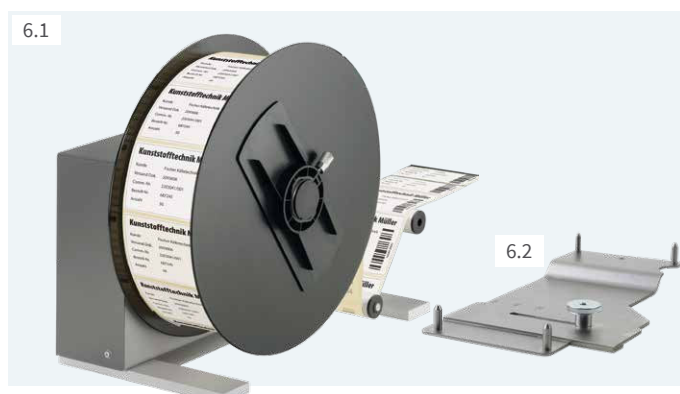**Products are plugged or screwed to a printer by a customer.**

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

3.1
CSQ 402

5.1
CU400 / 600

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	-	-

6.1

6.2

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 rewinder		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		☐	☐

Delivery program

Label printers

Pos.		Item no.	Designation
1.1		6011520	XC Q4 label printer
1.2		6011525	XC Q6.3 label printer

xxxxxxx.250   if XC Q provides options

Scope of delivery

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

Provided online

https://setup.cab.de/en

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

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

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

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.xxx	CSQ 402 cutter, tray included
5.1		5978900	CU400 cutter, tray included
		5979033	CU600 cutter
6.1		5946090 5946420	External ER4/300 rewinder External ER6/300 rewinder
6.2		6011796 6011797	Adapter kit XC Q4 Adapter kit XC Q6.3

.xxx - .250 assembled to a printer

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.

Delivery program

Label software

Pos.		Item no.	Designation
11.7		Bundle 5588001 5588100 5588101 5588150 5588151 5588152 5588002 5588105 5588106 5588155 5588156 5588157 in preparation	cablabel S3 Lite (download on cab.de/en) cablabel S3 Pro 1 WS cablabel S3 Pro 5 WS cablabel S3 Pro 10 WS cablabel S3 Pro 1 additional licence cablabel S3 Pro 4 additional licences cablabel S3 Pro 9 additional licences cablabel S3 Print 1 WS cablabel S3 Print 5 WS cablabel S3 Print 10 WS cablabel S3 Print 1 additional licence cablabel S3 Print 4 additional licences cablabel S3 Print 9 additional licences 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		
Slowenian	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

See product information on **www.cab.de/en**