Status: 03/2023





### XCQ label printers for printing with two colors



### Particularities

- **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.
- 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.



## Types of printers

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.

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 Materia	ls as wide 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

### Technical data

Label printer			XC Q4	XC Q6.3	
Guidance of materi	ials		aligned to the		
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		•	•	
Material <sup>1)</sup>	8				
Paper, cardboard, s	ynthetics PET, PE, PP, PI, P	VC. PU. acrylate. Tyyec	•		
Textile tape	,,,	10,10,00,000,000	•	_	
Finishing	Roll				
	Roll diameter	mm max.	. 300		
	Core diameter	mm	76		
	Winding		outside or ins	ide	
Label	Width	mm	20 - 116	46 - 176	
Luber	Height	mm at least	20 110 20	10 110	
	Thickness	mm max.	0.1		
Liner	Width	mm	24 - 120	50 - 180	
	Thickness	mm max.	0.1	50 100	
Continuous	Width	mm	24 - 120	50 - 180	
continuous	Thickness	mm max.	0.3	30 100	
	Weight (cardboard)	g/m² max.	300		
Ribbon <sup>2)</sup>	Color side	g/11 11/dx.	outside or ins	ido	
KIDDOII	Roll diameter	mm max.	80	lue	
	Core diameter	mm			
			25.4		
	Length Width	m max.	450	170	
Printer dimensior		mm max.	114	170	
Width x Height x De	pth	mm	248 x 395 x 554 22	358 x 395 x 554 24	
Weight		kg	22	24	
Label sensors, po	sition indicators		labels, punch marks, ma	torials and ing	
Transmissive sense	)r	detecting	print marks on transluce		
	for a halow and a		labels, materials		
Reflective sensor	from below or top	detecting	print marks on non-transl	ucent materials	
Sensor distance	to locating edge	mm	5 - 60		
Material passage		mm max.	2		
Interfaces					
RS232-C 1,200 to 2	30,400 baud / 8 bit				
USB 2.0 Hi-Speed c	levice to plug a PC				
Ethernet 10/100 Mb	oit/s		LPD, RawIP printing, SOAP web service, OPC UA, WebDAV DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC		
1 USB host on the c	•	for plugging	a koyboard barcodo scappor an US		
2 USB hosts on the	back of a unit	for plugging	USB WLAN stick with a rod antenna, USB Blueto		
USB host, 24 VDC, f	for peripheral plugging				
	e providing 8 inputs and 8	8 outputs			
0,					
Operating data			100 - 240 VAC, 50/60	) Hz, PFC	
Operating data Voltage	Consumption of power		<10 W in standby / 100 W in typical operation		
Voltage	Temperature / humidity Operation		+5 - 40°C / 10 - 85 %, not condensing		
Voltage Consumption of po	hidity		0 - 60°C / 20 - 85 %, not condensing		
Voltage Consumption of po	nidity		0 - 60°C / 20 - 85 %. not	-25 - 60°C / 20 - 85 %, not condensing	
Voltage Consumption of po	hidity	Stock			
Voltage Consumption of po Temperature / hum	nidity		–25 - 60°C / 20 - 85 %, no	t condensing	
Voltage Consumption of po Temperature / hum	nidity	Stock Transport	–25 - 60°C / 20 - 85 %, no CE, FCC Class A, ICES-3, c	t condensing ULus, CB, CCC	
Voltage Consumption of po Temperature / hum Approvals	nidity	Stock	–25 - 60°C / 20 - 85 %, no CE, FCC Class A, ICES-3, c	t condensing ULus, CB, CCC	
Voltage Consumption of po	nidity Diagonal	Stock Transport	–25 - 60°C / 20 - 85 %, no CE, FCC Class A, ICES-3, c CoC Mexico, EAC, BIS, B	t condensing ULus, CB, CCC	

<sup>1)</sup> Specifications are standards. Operations including small, slim, thick or stiff materials need testing, so do strongly adhesive labels. <sup>2)</sup> A ribbon should be at least as wide as the liner material.

### Technical data

Setup options			
	Print Labels Ribbon Tear off Cut Interfaces Error	Region: - Languag - Country - Keyboar - Time zo Time Display: - Brightne - Power s - Oriental Interpret	rd ne ess aving mode tion
Status bar	1		
	Receive data Record datastream Warning to a ribbon SD memory card plu USB stick plugged		Bluetooth WLAN Ethernet USB slave Time
Controls			
	Ribbon 1/2 - Winding - Prior warning - End of ribbon Running out of mate	erial	Print head 1/2 - Voltage - Temperature - open Peripheral error
Test routines			
System diagnostics	upon startup, detec		nt head included
Information display, test printout, analysis	Status printout Fonts list List of units WLAN status	Test grid Label pro List of eve Monitor r	ents
Status reports	<ul> <li>Printout of print du</li> <li>Status of a unit req</li> <li>Display of errors re or peripheral device</li> </ul>	uested by lated to a	software command network, barcode
Fonts	· · ·		
Integral	5 bitmap fonts: 12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B		Aedium GB-Mono virate Condensed Bold gHeiLight ce 821
For storing	TrueType fonts		
Sets of characters	EBCDIC 500 ISO 8859-1 to -10 an WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European	50, 852, 85	Cyrillic
	Eastern European Chinese, simplified Chinese, traditional Thai		Greek Latin Hebrew Arabian
Bitmap	1 mm to 3 mm wide Zoom factors 2 to 10 0°, 90°, 180°, 270° or	) ientations	
Vector / TrueType	0.9 mm to 128 mm v Continuous zoom 360° orientation in s	steps of 1°	<u> </u>
Styles	bold, italic, underlin - depending on the f		e, inverse
Character spacing	proportional or mor		
Graphics			
Elements	lines, arrows, rectar - filled or gradient		
Formats	PCX, IMG, BMP, TIF, I	MAC, GIF, F	NG

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 of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0	code
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		
Software			
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print		
Running also with	CODESOFT NiceLabel BarTender		
Stand-alone operation			
Windows printer drivers for	Windows 11	Server 2016 Server 2019 Server 2022 paration	
Apple printer drivers	Mac OS X 10.6 or any later release minimum driver version 1.46		
Linux printer drivers	CUPS 1.2 or any later release minimum driver version 1.46		
Programming	JScript printer language abc Basic Compiler ZPL II (datastream be test	ted in advance)	
Integration	SAP Database Connector		
Administration	Printer control Configuration on the Intra	anet 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/opcua

■ standard □ option

### Accessories / optional equipment

2.1	SD memory card
2.2	USB stick
2.3	<b>USB WLAN stick</b> 2.4 GHz 802.11b/g/n Hotspot mode or infrastructure mode
2.4	<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
2.5	USB Bluetooth adapter



#### **Digital I/O interface** Labeling is triggered

Labeling is triggered via a PLC, a sensor or a hand switch. Status reports and errors are displayed simultaneously.

# .8

#### I/O interface plug SUB-D, 25 pins, for connecting all control signals to the I/O interface





#### 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: Passage width mm max.	120	120	180
Passage height mm max.	2.0	2.0	2.0
Weight (cardboard) gr/m <sup>2</sup> 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		
Controts	cutter cover removed	-	-



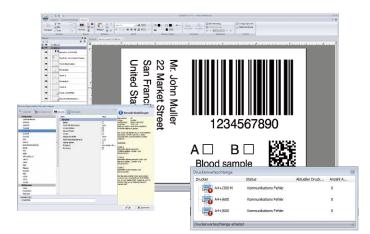
**External ER4, ER6 rewinders,** power supply built in Label webs may be wound outside or inside. They are wound consistently and tight by electronic control, with a pendulum arm.

External rewinder		ER4/300	ER6/300
Operated with		XC Q4 XC Q6.3	
Width of a material	mm max.	120	180
Roll diameter	mm max.	30	00
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			

### 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.





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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 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.

#### Integration

### Printer Vendor program

cab as a member of this program developed a replace method for controlling cab printers from SAP<sup>1</sup> R/3 using SAPScript. Only variable data are sent by a host system to a printer. They add on the printer to local images and fonts (IFFS, memory card, etc.).

### 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.

#### **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.

### Delivery program

#### **Label printers**

Pos.	ltem no.	Designation
1.1	6011520	XC Q4 label printer
1.2	6011522	XC Q4-C2 label printer with a CSQ 402 cutter
1.3	6011525	XC Q6.3 label printer

xxxxxx.250 options assembled

#### Wear parts

Po	os.	ltem 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

#### 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 in preparation Spare parts lists DE / EN Programming manual EN Windows printer drivers for Windows 10 Server 2016 Windows 11 Server 2019 Server 2022 Certification WHQL in preparation Apple Mac OS X printer drivers DE / EN / FR Linux printer drivers DE / EN / FR

Accessories

Accessorial products are plugged or screwed to a printer by a customer.



See further accessories on www.cab.de/en/xcq-accessories

cablabel S3 Lite software cablabel S3 Viewer Database Connector

#### **Optional equipment**

Options are parts or units to perform special functions. They are assembled to a printer in addition to or instead of standards. If order implies options be assembled ex factory, corresponding item numbers are added by .250. Options delivered separately are added by .001.

#### Accessories / optional equipment

Pos.		ltem 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
2.5		5977732	USB Bluetooth adapter
5.1		5978900	CU400 cutter tray provided
5.1		5979033	CU600 cutter
6.1		5946090 5946420	External ER4/300 rewinder External ER6/300 rewinder
6.2		6011796 6011797	XC Q4 adapter kit XC Q6.3 adapter kit
3.1		5984565.xxx	CSQ 402 cutter
2.7		5551447.xxx	Digital I/O interface
2.8		5917651.xxx	I/O interface plug SUB-D, 25 pins

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

## Delivery program

#### Label software

	Pos.		Item no.	Designation		
			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		
	11.7		5588152	cablabel S3 Pro 9 additional licences		
1	11.1		5500000	cablabel S3 Print 1 WS		
			5588002 5588105	cablabel S3 Print 1 WS		
			5588106	cablabel S3 Print 10 WS		
			5588155	cablabel S3 Print 1 additional licence		
			5588156	cablabel S3 Print 4 additional licences		
			5588157	cablabel S3 Print 9 additional licences		
			in	cablabel S3 Print Server		
1			preparation			
	11.10		9008486	Programming manual EN, printed copy		

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

#### User languages

Language	Instruc- tions	Control panel	Windows driver	Service manual	cablabel S3				
European Union									
Bulgarian	0	Х	Х		Х				
Danish	0	Х	Х						
German	Х	Х	Х	0	Х				
Estonian	0	Х	Х						
Finnish	0	Х	Х						
French	Х	Х	Х		Х				
Greek	0	Х	Х						
English	Х	Х	Х	0	Х				
Italian	0	Х	Х		Х				
Croatian	0	Х	Х		Х				
Latvian	0	Х	Х						
Lithuanian	0	Х	Х						
Dutch	0	Х	Х						
Polish	0	Х	Х		Х				
Portuguese	0	Х	Х						
Romanian	0	Х	Х						
Swedish	0	Х	Х						
Slovak	0	Х	Х						
Slowenian	0	Х	Х						
Spanish	0	Х	Х		Х				
Czech	0	Х	Х		Х				
Hungarian	0	Х	Х						
Europe (Non	i-EU)								
Macedonian	0	Х	Х						
Norwegian	0	Х	Х						
Russian	0	Х	Х		Х				
Serbian	0	Х	Х						
Turkish	0	Х	Х						
Asia									
Chinese (simplified)	0	Х	Х		х				
Chinese (traditional)	0	Х	Х		Х				
Japanese	0	0	Х						
Korean	0	0	Х		Х				
Thai	0	Х	Х						
Middle East									
Persian		Х							
Arabian		Х							

O in preparation