Status: 06/2022

Products need labeling

Two-color label printers

XC

Made in Germany

XC two-color label printers

1.1

1.2

Two print heads are assembled one behind the other for printing with two colors on a label.

Less consumption of ribbon on one print head due to a mechanics

Classification and labeling according to GHS

300 mm maximum label roll diameter

Label printer		XC4
Print resolution	dpi	300
Print speed	mm/s max.	125
Print width	mm max.	105.6

Label printer		XC6
Print resolution	dpi	300
Print speed	mm/s max.	125
Print width	mm max.	162.6

cab helps with selecting proper ribbons.

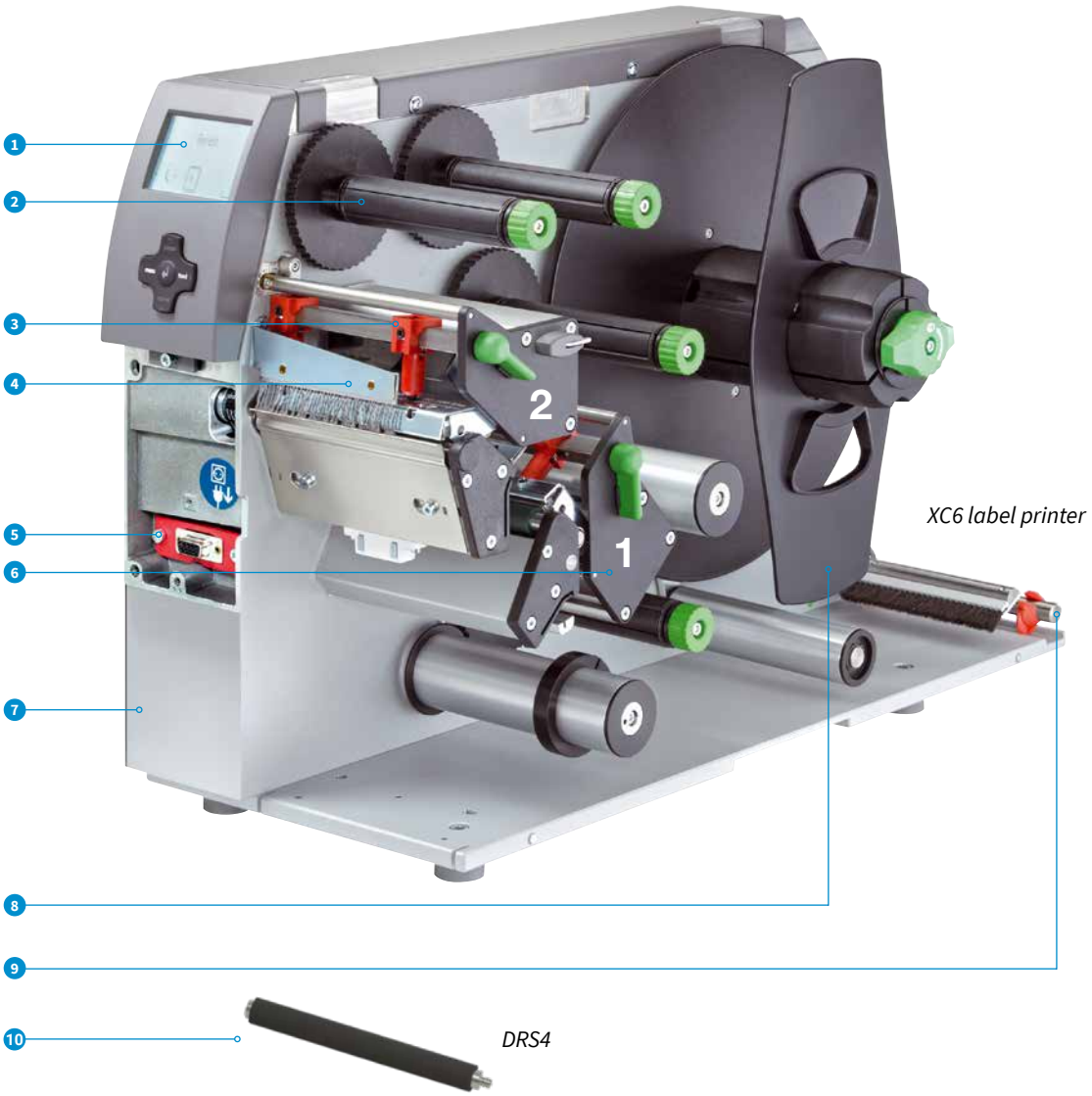
Accessories

CU4, CU6 cutters
Paper labels and self-adhesive labels, cardboard, textile and synthetic materials can be cut, so can shrink tubes.

PCU4 perforation cutter
Materials can as well be perforated, to be separated by hand at a later stage.

ST4 L stacker including a cutter
Printed materials can be cut and then collected. Print jobs stop if the maximum number of labels have been collected. Even stiff or curved materials can be processed. cab recommends to have such operations tested.

Joint details



XC6 label printer

DRS4

1 Large display
White backlight results in good readability.

2 Ribbon retainer
Three-part tightening axles enable ribbons be replaced easily.

3 Pressing plungers
One is fixed near the chassis wall. Moving the second one far enough to the label margin evokes a good print image.

4 Antistatic brush
Electrostatics are discharged after printing, in particular if synthetic materials are in use.

5 Port to add peripheral equipment
Easy plugging using two centering bolts and a screw

6 Less consumption of ribbon by a mechanics on print head 1
If printing only on parts of a label, the print head is lifted along blank areas and the ribbon stopped while label feed continues.

7 Solid cast aluminum chassis
All components are assembled to it.

8 Roll retainer
Label rolls with a maximum diameter of 300 mm can be inserted. Label webs are unwound with constant force using a swing arm and the integral brake.

9 Fanfold guide
Fanfold labels are inserted behind the print head. A guide in addition to a brake enable the labels be fed reliably to the print mechanics.

10 DRS print roller
Silicone coating for extra long life cycles, accepting higher tolerances in print image accuracy

Technical data

■ standard ☐ option

			1.1	1.2
Label printer			**XC4**	**XC6**
Print head				
Guidance of materials			aligned to the left	aligned to the left
Print method	Thermal transfer		■	■
Print resolution		dpi	300	300
Print speed		mm/s max.	125	125
Print width		mm max.	105.6	162.6
Materials				
Roll	Paper, cardboard, synthetics such as PET, PE, PP, PI, PVC, PU, acrylate, Tyvec		■	■
	Textile strip		■	–
Label[1]	Width	mm	20 - 116	46 - 176
	Height	mm	20 - 2,000	20 - 2,000
	Thickness	mm	0.05 - 0.2	0.05 - 0.2
Liner	Width	mm	24 - 120	50 - 180
Roll	Outside diameter	mm max.	300	300
	Core diameter	mm	76 - 100	76 - 100
	Winding		outside or inside	
Ribbon[2]				
Color layer			outside or inside	
Roll diameter		mm max.	72	
Core diameter		mm	25	
Length		m max.	360	
Width		mm max.	114	165
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 (option)		detecting	materials ending, print marks on non-translucent materials	
Sensor distance to locating edge		mm	5 - 53	5 - 53
Electronics				
32 bit processor		MHz	266	
RAM		MB	64	
IFFS		MB Flash	8	
Port to plug a	CompactFlash Type I memory card		■	
	WLAN card		■	
Backup battery for real time clock			■	
Acoustic error signal			■	
Interfaces				
USB 2.0 Hi-Speed slave to plug a PC			■	
Ethernet 10/100 Mbit/s			LPD, RawIP printing, FTP, DHCP, HTTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP	
Peripheral port			■	
WLAN 802.11b/g, WEP/WPA-PSK (TKIP)			☐	
2 USB hosts		to plug	a service key, USB stick, keyboard, barcode scanner, external control panel	
Operating data				
Voltage			100 - 240 VAC, 50/60 Hz, PFC	
Consumption of power			100-300 W, depending on the type of device	
Temperature / humidity		Operation	+5 - 40°C / 10 - 85 %, not condensing	
		Stock	0 - 60°C / 20 - 80 %, not condensing	
		Transport	–25 - 60°C / 20-80 %, not condensing	
Approvals			CE, FCC, CB, cULus, CCC	

[1] Limitations may occur with small labels, slim or strongly adhesive materials. Critical operations need testing.
[2] A ribbon should be at least as wide as the liner material.

Technical data

■ standard ☐ option

Control panel		
	LCD display 60 mm wide, 40 mm high four lines of text, approx. 20 characters per line	
Buttons / LED	pause, feed, cancel, menu, enter 4 cursors	
Setup options		
	Clock (digital or analog) Device settings Print parameters Language	Time Date Interfaces Protection
Status bar		
	Data received WLAN Ethernet Memory in use Print head temperature Memory card access	Clock Calendar abc debug Input buffer Ribbon remaining
Controls		
	Ribbon ending End of label web Print head open no final cutter position	
Test routines		
System diagnostics	upon startup, print head detection included	
Information on / printout of status	Fonts list List of units WLAN status	Test grid Label profile Monitor mode PPP status
Status reports	- Printout of print durations, running hours, etc. - Device status request by software command - Display of errors related to a network or a barcode, as well as links missing	
Fonts		
Integral To be stored	5 bitmap fonts: 12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B TrueType	3 vector fonts: Swiss 721 Swiss 721 Bold Monospace 821
Sets of characters	Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869 EBC DIC 500 ISO 8859-1 to -10 and -13 to -16 WinOEM 720 UTF-8 MacRoman DEC MCS K0I8-R Western European Eastern European Chinese, simplified Thai	 Cyrillic Greek Latin Hebrew 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 often von 1°	
Styles	bold, italic, underlined, outline, inverse - depending on the font type	
Character spacing	proportional	

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 EAN-DataMatrix QR code PDF 417 Micro PDF 417 GS1 Data Bar Aztec Codablock F UPS Maxicode RSS 14 truncated, limited, 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 NiceLabel BarTender	
Stand-alone operation		■
Windows printer drivers certified WHQL for	Windows Vista Windows 7 Windows 8 Windows 8.1 Windows 10 Server 2008 Server 2008 R2 Server 2012 Server 2012 R2 Server 2016 Server 2019	■
Programming	JScript printer language abc Basic Compiler	■ ■
Integration	SAP Database Connector	■ ■
Administration	Printer control Configuration on the Intranet and Internet Network Manager	■ ■ ■

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

Overview of accessories

○ possible ☐ option

		1.1	1.2
Pos.	**Add-ons on devices**	**XC4**	**XC6**
	Special equipment		
2.1	DR4S print roller	☐	☐
2.2	CompactFlash memory card	☐	☐
2.3	External control panel	☐	☐
	Interfaces		
3.1	Label selection - I/O box	☐	☐
3.2	WLAN 802.11b/g	☐	☐
	Connecting cable		
4.1	Connecting RS232-C cable, 9/9 pins, 3 m	☐	☐
	Label cutting, perforation, stacking		
5.1	CU cutter	☐	☐
5.2	PCU4 perforation cutter	○	-
5.3	ST4 L stacker including a cutter	☐	-
	Label winding		
6.1	External ER rewinder	☐	☐
6.2	Kit to adapt rewinders / unwinders to XC4, XC6	☐	☐

Special equipment, interfaces, connecting cables

Special equipment

2.1

DR4S print roller

with materials no more than 120 mm wide; silicone coating for extra long life cycles, accepting higher tolerances in print image accuracy

2.2

Memory card

CompactFlash Type I

2.3

External control panel

If the control panel of a printer cannot be accessed, an additional external one can be plugged. A port to plug a CompactFlash Type I memory card is provided, so is a host interface.

Interfaces

3.1

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.

3.2

WLAN 802.11b/g

Connecting cable

4.1

Connecting RS232-C cable

9/9 pins, 3 m

Label cutting, perforation, winding

5.1

CU cutter

Paper labels and self-adhesive labels, cardboard, textile and synthetic materials can be cut, so can shrink tubes.

Operated with			XC4	XC6
Material	Width	mm max.	110	180
	Weight (cardboard)	gr/m²	60 - 300	
	Thickness	mm	0.05 - 0.8	
Cutting length		mm at least	5	
Material passage		mm max.	2.5	
Performance		cuts/min max. no material	100	
Stop printing if			no final cutter position	

5.2

PCU4 perforation cutter

Continuous materials such as textiles or shrink tubes can be perforated, to separate by hand at a later stage. The materials can be cut as well.

Operated with			XC4
Perforation Distance between off-cuts		mm	0.5
	Width of off-cuts	mm	2.5 or 10
Material	Width	mm max.	85
	Weight (cardboard)	gr/m²	60 - 300
	Thickness	mm	0.05 - 0.8
Cutting length		mm at least	5
Material passage		mm max.	2.5
Performance		cuts/min max. no material	100
Stop printing if			no final cutter position

5.3

ST4 stacker including a cutter

Printed materials can be cut and then collected.
Print jobs stop if the maximum number of labels have been collected.
Limitations may occur with stiff or curved materials.
cab recommends to have such operations tested.

Operated with			XC4
Material	Width	mm max.	20 - 110
	Weight (cardboard)	gr/m²	60 - 300
	Thickness	mm	0.05 - 0.8
Cutting length		mm at least	20 - 150
Material passage		mm max.	1.2
Performance		cuts/min max. no material	100
Stop printing if			no final cutter position, cover open, limit of collecting
Limit of collecting		mm max.	100

Support table - width x height of a label

The support table and a protective cover are adapted to the size of a label. Separate order

6.1

External ER4, ER6 rewinders, power supply installed

They operate also with printers other than cab.
Label webs picked up may be wound outside or inside.

	ER4/210	ER4/300	ER6/300
Operated with	XC4	XC4	XC6
Width of a material mm max.	120	120	180
Roll diameter mm max.	205	300	300
Core diameter mm	40 with a winding axle or a cardboard core in use 76 with a cardboard core and an adapter in use		
Winding	outside or inside		
Voltage	100 - 240 V, 50/60 Hz		

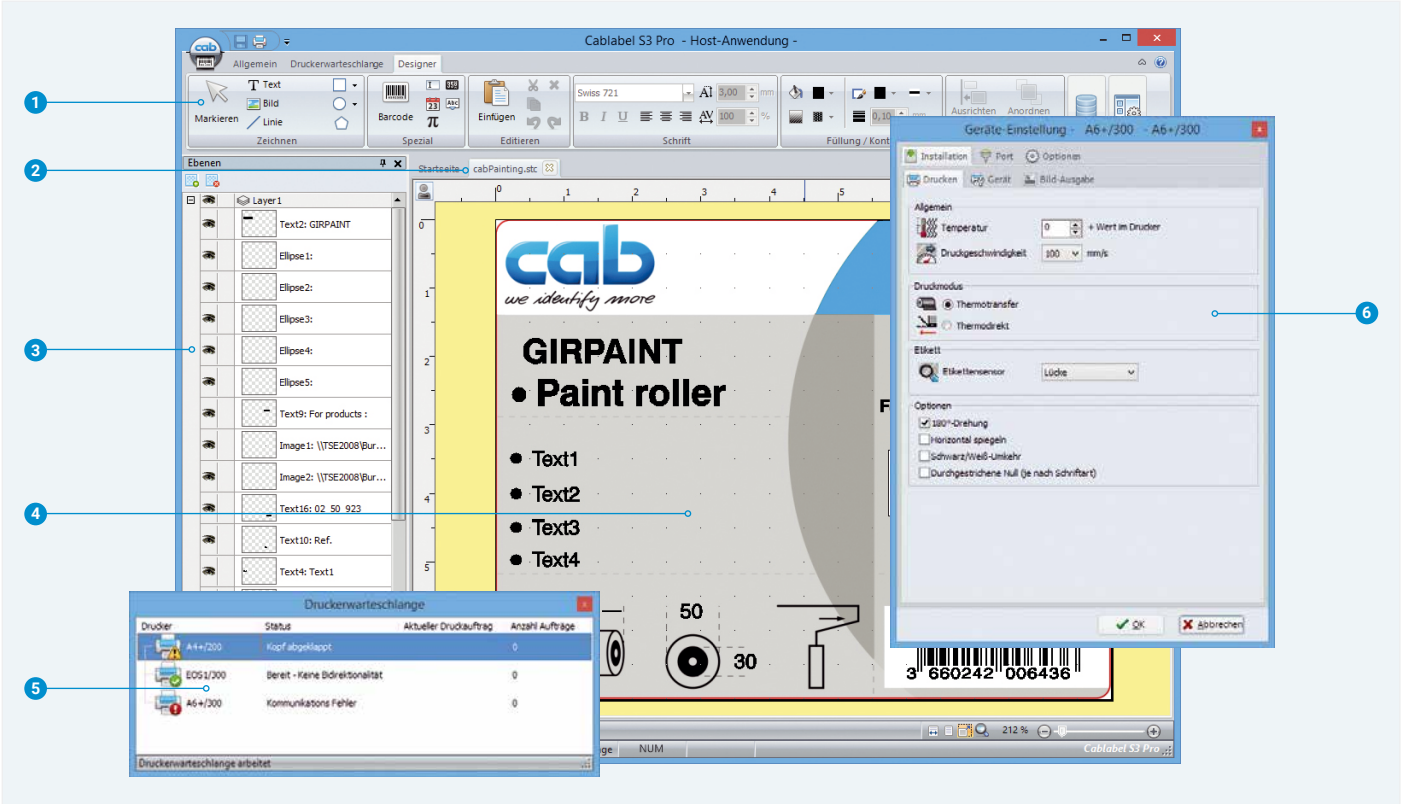
6.2 **Kit to adapt** ER4, ER6 to XC4, XC6

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**



1. **Toolbar**
   for creating different label objects
2. **Tabs**
   for switching quickly from one label to another
3. **Layers**
   for administrating different label objects
4. **Designer**
   Label display in what-you-see-is-what-you-get mode
5. **Printer spooler**
   Print job control and printer status
6. **Drivers**
   for setup and interaction with other devices

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 32 / 64 bit drivers for controlling printers with software other than cablabel S3. Running the drivers requires operating system Windows Vista or any later release.

Windows[1] drivers
Certified WHQL for maximum stability with Windows operating systems

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 PLCs.

Integration

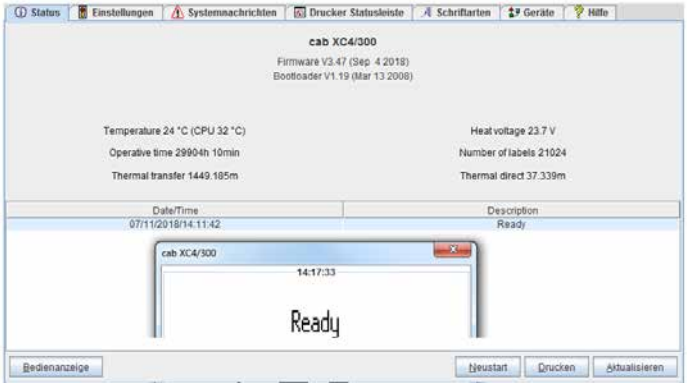
Printer Vendor program
cab as a member of this program developed a replace method for controlling cab printers from SAP[2] R/3 using SAPScript. Only variable data are sent by a host system to a printer. They add on the printer to local images and fonts (IFFS, memory card, etc.).

Step 1	Step 2	Step 3
Labels and replace files designed in cablabel S3	Variable data replaced in SAPScript using replace files	Printout from SAP

Printer administration

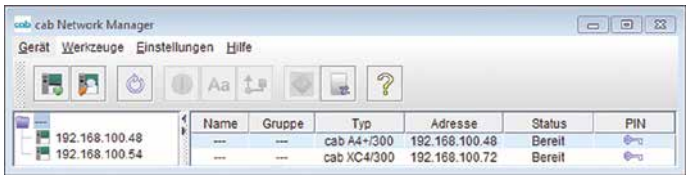
Configuration on the Intranet and Internet

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 diagrams. Time and date are synchronized by a time server.



Network Manager

A number of network printers can be administrated simultaneously. Centered management, such as control, configuration, firmware updates, administration of memory cards and PINs, synchronization of data



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] Windows is a registered trademark of Microsoft Corporation
[2] SAP and associated logos are trademarks or registered trademarks of SAP SE

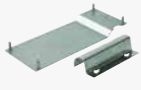
Delivery program

Pos.		Part no.	Printer
1.1		**5965700**	XC4 label printer
1.2		**5965701**	XC6 label printer

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

Provided online
https://setup.cab.de Instructions DE / EN / FR / RS / IT Configuration manuals DE / EN / FR Service manuals DE / EN Spare parts lists DE / EN Programming manual EN Windows printer drivers certified WHQL for Windows Vista / Server 2008 Windows 7 / Server 2008 R2 Windows 8 / Server 2012 Windows 8.1 / Server 2012 R2 Windows 10 / Server 2016 Server 2019 cablabel S3 Lite software cablabel S3 Viewer Database Connector

Pos.		Part no.	Label cutting, perforation, stacking
5.1		**5948000** **5948001**	CU4 cutter CU6 cutter
5.2		**5960050.351** **5960050.352**	PCU4/2,5 perforation cutter PCU4/10 perforation cutter
5.3		**5541311**	ST4 L stacker including a cutter
		**55xxxxx**	ST4 L support table, width x height of a label

Pos.		Part no.	Label winding
6.1		**5948100** **5946090** **5946420**	External ER4/210 rewinder External ER4/300 rewinder External ER6/300 rewinder
6.2		**5965712** **5965713**	XC4 adapter kit XC6 adapter kit

x - user-specific part no. according to order

Pos.		Part no.	Wear parts
		**5954072.001**	Print head 4/300 dpi
		5954106.001	Print head 6/300 dpi
		**5954180.001**	DR4 print roller
		5954245.001	DR6 print roller
Pos.		**Part no.**	**Special equipment**
2.1		**5954985.001**	DR4S print roller
		5954979.001	DR6S print roller
2.2		**5561043**	CompactFlash Type I memory card
2.3		**5954380**	External control panel
Pos.		**Part no.**	**Interfaces**
3.1		**5948205**	Label selection - I/O box
3.2		**5561041**	WLAN 802.11b/g
Pos.		**Part no.**	**Connecting cable**
4.1		**5550818**	Connecting RS232-C cable 9/9 pins, 3 m

Pos.		Part no.	Label software
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
		5588002	cablabel S3 Print 1 WS
		5588105	cablabel S3 Print 5 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 preparation	cablabel S3 Print Server
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.

Range 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

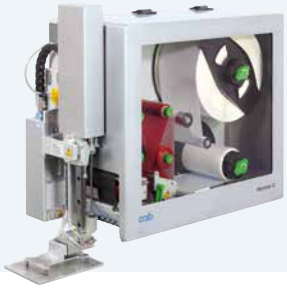
Label printer
SQUIX 8.3

Label printer
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

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

For product information see **www.cab.de/en**

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