cab
we identify more

Products need labeling

Label printers
with highest operating comfort

eos
Made in Germany

Types

One concept, two sizes

The EOS series combines all functions of a solid label printer with highest operating comfort.

EOS2, the compact one

for label roll diameters up to 152 mm

Label printer		EOS 2	
Printable resolution	dpi	203	300
Print speed	up to mm/s	150	150
Print width	up to mm	108	105.7
Label roll diameter	up to mm	152	152
Power supply		100 - 240 VAC, 50/60 Hz	

EOS5 for large label rolls

with diameters up to 203 mm

Label printer		EOS 5	
Printable resolution	dpi	203	300
Print speed	up to mm/s	150	150
Print width	up to mm	108	105.7
Label roll diameter	up to mm	203	203
Power supply		100 - 240 VAC, 50/60 Hz	

Mobile printing

in production, warehousing or agriculture, wherever labels are required and access to electricity is missing. 24 V input voltage enable the printer to be power supplied by any powerful battery. For technical battery data see accessories

EOS2 mobile

for label roll diameters up to 152 mm

Label printer		EOS 2 mobile
Printable resolution	dpi	300*
Print speed	up to mm/s	150
Print width	up to mm	105.7
Label roll diameter	up to mm	152
Power supply		16.5 - 25 VDC

EOS5 mobile

for label roll diameters up to 203 mm

Label printer		EOS 5 mobile
Printable resolution	dpi	300*
Print speed	up to mm/s	150
Print width	up to mm	105.7
Label roll diameter	up to mm	203
Power supply		16.5 - 25 VDC

*203 dpi on request

Details

1 Roll holder
The label roll is inserted and
automatically centered when closing.

2 Ribbon holder
The stop can be adjusted
according to the ribbon width.

3 Print head 203 / 300 dpi
In case of cleaning or wear, the print head
can be replaced easily by hand without tools.

4 Label sensor - gap or reflective
The sensor position can be adjusted
via a spindle using the red rotary knob.
The chosen position is indicated by a LED.

5 Print roller DR4
In case of cleaning or wear, the print roller
can be replaced without tools.

6 Material guide
Using the rotary knob, the guides
can be adjusted to the material width

7 Tear-off plate
made of thin sheet steel;
jagged, so labels are cleanly separated

DR4-25

DR4-50

To achieve accurate imprint with slim materials
and ribbons, slim print rollers are needed.
These prevent from print roller wear, print head
contamination and errors during material feed.

Operation panel

**Intuitive and easy operation with self-explanatory symbols
to configure the device setups**

1 LED signal: Power ON

2 Status bar: Data reception, Record data stream, Ribbon pre-warning,
SD memory card / USB memory stick, Bluetooth,
WLAN, Ethernet, USB slave, Time

3 Printer status: Ready, Pause, Number of printed labels per print job,
Label in peel-off position, Awaiting external start signal

4 Buttons for cutter / perforation cutter: direct cutting
tear-off mode: print the next label

5 USB slot for the Service Key or a memory stick,
to load data in the IFFS storage

6 Operation:
Jump to menu   Stop and delete all print jobs
Reprint last label   Label feed
Interrupt and continue print job

Interfaces on the back of the device

1 for **SD memory card**

2 2 x USB host to connect a Service Key,
USB memory stick, keyboard, barcode scanner,
USB Bluetooth adapter, USB WLAN stick

3 USB 2.0 Hi-speed Device to connect a PC

4 Ethernet 10/100 BASE-T

5 RS232C 1,200 to 230,400 baud/8 bit

Technical data

■ Standard   □ Option

Label printer			1.1	1.2	1.3	1.4
			EOS 2	**EOS 5**	**EOS 2 mobile**	**EOS 5 mobile**
Print head						
Material feed			centered			
Printing method			Thermal transfer, thermal direct			
Printable resolution		dpi	203	300	203	300	300	300
Print speed		up to mm/s	150	150	150	150	150	150
Print width		up to mm	108	105.7	108	105.7	105.7	105.7
Material[1]						
Labels, continuous material on roll or reel			Paper, cardboard, textile, plastics such as PET, PE, PP, PI, PVC, PU, Acrylate, Tyvec, pressed continuous shrink tubes			
	Leporello		□	□	-	-
Labels	Width	mm	single-lane: 10 - 116, multi-lane: 5 - 116			
	Height without label backfeed from mm		5			
	with label backfeed from mm		12			
	Thickness	mm	0.05 - 0.6			
Liner material	Width	mm	25 - 120			
	Thickness	mm	0.05 - 0.16			
Continuous material	Width	mm	5 - 120			
	Thickness	mm	0.05 - 0.5			
	Weight (cardboard)	up to g/m²	240			
Shrink tubes	Width ready-for-use	mm	5 - 85			
	Thickness	up to mm	1.1			
Roll	Outside diameter	up to mm	152	203	152	203
	Core diameter	mm	38.1 - 76			
	Winding		outside or inside			
Ribbon						
Ink side			outside or inside			
Roll diameter		up to mm	72			
Core diameter		mm	25.4			
Variable length		up to m	360			
Width		mm	25 - 114			
Printer sizes and weights						
Width x Height x Depth		mm	253 x 189 x 322	264 x 245 x 412	253 x 189 x 322	264 x 245 x 412
Weight		kg	4	5	4	5
Label sensor with position indication						
Gap sensor for			labels, punch marks or print marks in transparent materials and end of material			
Reflective sensor from below or top for			print marks in not transparent materials and end of material			
Distance from center to locating edge centered		mm	0 - 58			
Height of material gap		up to mm	4			
Electronics						
Processor 32 bit clock rate		MHz	800			
Main storage (RAM)		MB	256			
Data storage (IFFS)		MB	50			
Slot for SD memory card (SDHC, SDXC)		up to GB	512			
Battery for time and date, real-time clock			■			
Data memory when power is turned off (e.g. serial numbers)			■			
Interfaces						
RS232C 1,200 to 230,400 baud/8 bit			■			
USB 2.0 Hi-speed device to connect a PC			■			
Ethernet 10/100 BASE-T			LPD, IPv4, RawIP printing, DHCP, HTTP/HTTPS, FTP/FTPS, SMTP, SNMP, TIME, NTP, Zeroconf, SOAP web service, VNC			
1 x USB host on the operation panel for			Service Key or USB memory stick			
2 x USB host on the back side for			Service Key, USB memory stick, keyboard, barcode scanner, USB Bluetooth adapter, USB WLAN stick			
Periphery connection USB host, 24 VDC			■			

[1] The material specifications are standard values.
   Applications with small labels, very thin, slim, thick and stiff materials as well as labels with a strong adhesive need to be tested.

Technical data

■ Standard □ Option

Operating data

Power supply	EOS	100 - 240 VAC, 50/60 Hz, PFC
	EOS mobile	24 VDC
Power consumption		Standby 1.8 W / typical 45 W / max. 100 W
Temperature / humidity	Operation	+5 - 40°C / 10 - 85 % not condensing
	Storage	0-60°C / 20 - 85 % not condensing
	Transport	–25 - 60°C / 20 - 85 % not condensing
Approvals		CE, FCC, ICES-3, CB, cULus, CCC, EAC, RCM, CoC Mexico, BIS, BSMI, KC-Mark

Operation panel

	Touchscreen LCD color display
Screen diagonal	4.3"
Resolution pixels W x H	272 x 480

Setup options

Print	Region:
Labels	Language
Ribbon	Country
Tear-off	Keyboard
Cut	Time zone
Interfaces	Time
Error	Display:
	Brightness
	Power save mode
	Orientation
	Interpreter

Status bar

Data reception	Bluetooth
Record data stream	WLAN
Ribbon pre-warning	Ethernet
SD memory card plugged in	USB slave
USB memory stick plugged in	Time

Monitoring

Ribbon pre-warning	Print head tension
End of ribbon	Print head temperature
End of material	Print head open
Periphery error	

Test routines

System diagnostics	when device is switched on, including print head detection
Information display, test printout, analysis	Status printout, Test grid Fonts list, Label profile Type overview, List of events WLAN status, Monitor mode
Status reports	- Printout of system settings, for example print lengths and running times - System status request via software command - Display information of, for example, network error, missing link, barcode error, periphery error, etc.

Fonts

Font types internally provided	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
to be stored	TrueType fonts	
Character sets	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 Arabic

Fonts

Bitmap fonts	Size in width and height 1 - 3 mm Zoom factor 2 to 10 Orientations 0°, 90°, 180°, 270°
Vector / TrueType fonts	Size in width and height 0.9 - 128 mm Variable zoom Orientation 360° in steps of 1°
Font styles	Bold, italic, underlined, outline, inverse - depending from the font type
Character spacing	Variable or Monospace for fixed character spacings

Graphics

Graphic elements	Lines, arrows, rectangles, circles, ellipses - filled or filled with fading
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG

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 and stacked	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 RSS 14 truncated, limited, stacked, stacked omni-directional	
	All codes are variable as regards height, modular width and ratio; orientations 0°, 90°, 180°, 270° optional check digit, plain text printout and start/stop code depending from the type of code	

Software

| Label software	cablabel S3 Lite	■
	cablabel S3 Viewer	■
	cablabel S3 Pro	□
	cablabel S3 Print	□
Running also with	CODESOFT NiceLabel EASYLABEL BarTender	
Stand-alone operation		■
WHQL certified Windows printer drivers for	Windows Vista Server 2008 Windows 7 Server 2008 R2 Windows 8 Server 2012 Windows 8.1 Server 2012 R2 Windows 10 Server 2016	■
Apple Mac OS X printer drivers	from version 10.6	■
Linux printer drivers	from CUPS 1.2	■
Programming	Printer language JScript	■
	abc Basic Compiler	■
Integration	SAP	■
	Database Connector	■
Administration	Printer control	■
	Configuration in Intranet and Internet	■
	Network Manager (in preparation)	■

cab uses Free and Open Source Software within its products.
For more information see **www.cab.de/opensource**

Label software cablabel S3

Designing, printing, administrating

cablabel S3 opens up the full potential of cab devices.

First of all, the label must be designed. Only when it comes to printing it has to be decided whether the label shall be processed on a label printer, a print and apply or marker laser system. cablabel S3 is of a modular design which makes it adaptable to requirements step by step. To support functions like native JScript programming, elements such as the JScript Viewer are embedded as plug-ins. The designer user interface and the JScript code are synchronized in real time. Special functions like the Database Connector or barcode testers can be integrated. For further information see **www.cab.de/en/cablabel**
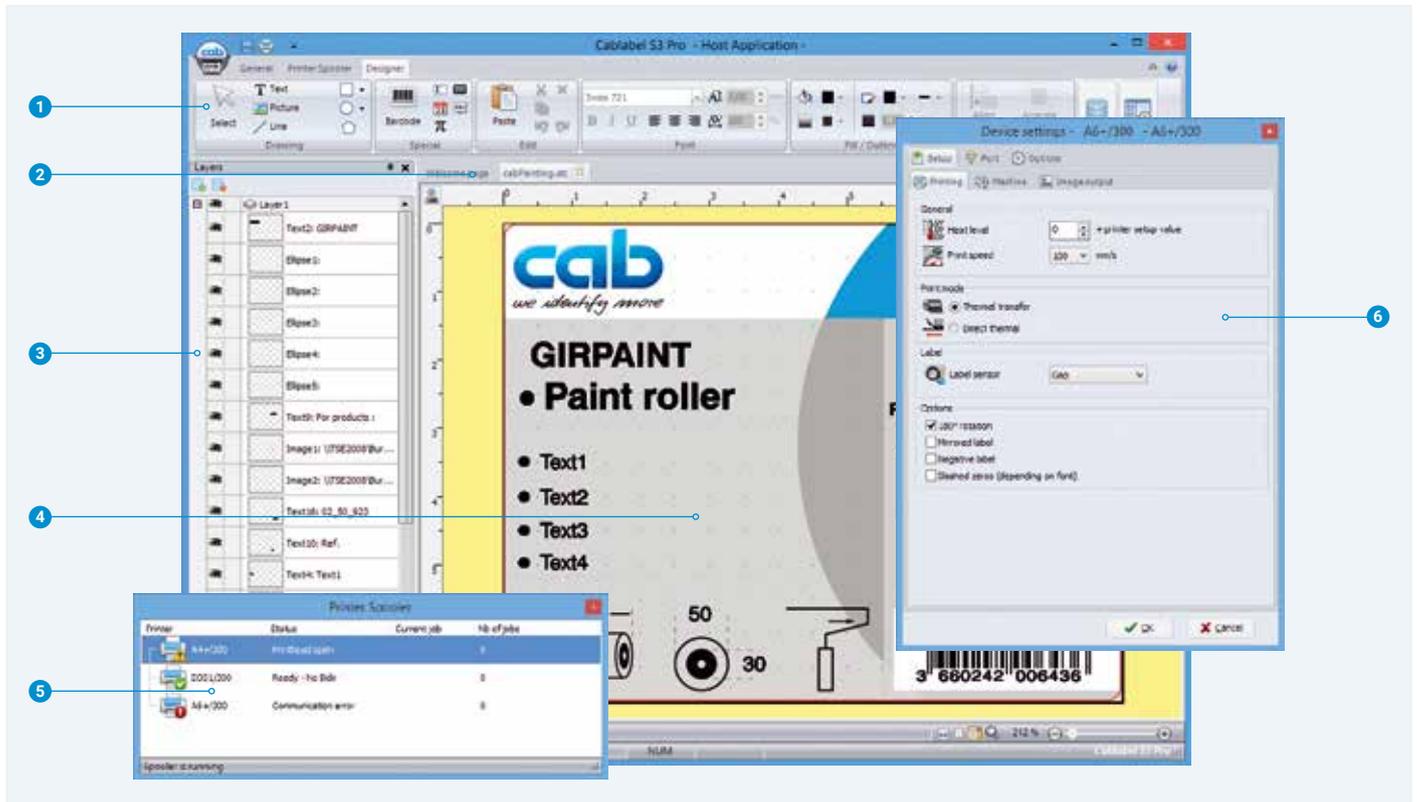
1 **Toolbar**
to create different label objects

2 **Tabs**
to quickly switch from one running label design to another

3 **Layers**
to administrate different label objects

4 **Designer**
simplifies the design and displays the label WYSIWYG

5 **Printer spooler**
to monitor all print jobs and the state of the printer

6 **Drivers**
for setting and the communication with devices

Printing in stand-alone operation

This operating mode is the printer's ability to select and print labels even when it is not connected connected to a host system.

The label has to be designed with a software such as cablabel S3 or by direct programming with a text editor on a PC. Label formats, texts, graphics as well as database contents are stored on a memory card, a USB memory stick or in the internal IFFS memory.

Only variable data are sent to the printer via a keyboard, a barcode scanner, scales or other host systems and/or recalled by the Database Connector from the host and printed.

Printer control

Drivers

To control the printer with a software other than cablabel S3, cab provides drivers in 32 / 64 bit for oprating systems starting from Windows Vista, Mac OS 10.6 and Linux with CUPS 1.2.

Windows[1] drivers
cab printer drivers are certified according to WHQL. They ensure optimum stability on the Windows operating system.

Mac OS X[2)3] drivers
cab provides CUPS-based printer drivers for Mac OS X applications.

Linux drivers[3]
Linux drivers are CUPS-based.

Drivers are offered on the DVD delivered with the printer and for free download at **www.cab.de/en/support**

Programming

JScript
To control the printer, cab has developed the embedded programming language JScript. See manual for free download at **www.cab.de/en/programming**
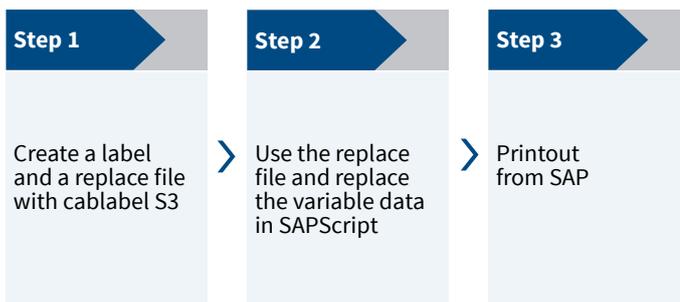
abc Basic Compiler
In addition to JScript and as an integral part of the firmware, it allows advanced printer programming before data are sent to printout. For example, external printer languages can be replaced without interfering in the current print job. Also data from other systems such as a scale, a barcode scanner or PLC can be integrated.

Integration

Printer Vendor Program
As a partner in SAP's[4] Printer Vendor Program, cab has developed a replace method to enable easy control of a cab printer via SAPScript from SAP R/3. Only variable data are sent to the printer by the host. Pictures and fonts that had priorly been stored in the local memory (IFFS, memory card, etc.) are merged.

| Step 1	Step 2	Step 3
Create a label and a replace file with cablabel S3	Use the replace file and replace the variable data in SAPScript	Printout from SAP

Printer administration

Configuration in Intranet and Internet

The HTTP and FTP server integrated in the printer via standard programs like a web browser or FTP clients allows printer control and configuration, firmware updates and memory card administration. Via email or SNMP, the SNMP and SMTP client datagram sends status, warning and error messages to administrators and users. Time and date are synchronized by a time server.

Network Manager in preparation

It is possible to simultaneously manage several printers within the network. Control, configuration, firmware updates, memory card administration, data synchronization and PIN administration are supported from one single location.
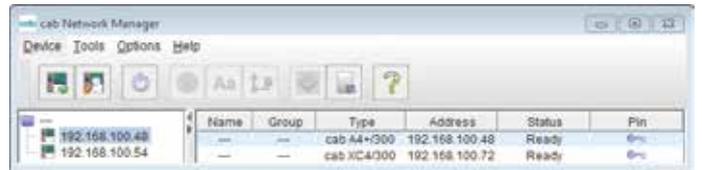
Database Connector

Printers connected to a network may directly access data from a central ODBC or OLEDB-ready database and print it on a label. While printing, data can be rewritten to the database.

[1] Windows is a registered trademark of Microsoft Corporation
[2] MAC OS X is a registered trademark of Apple Computer, Inc.
[3] Only for device series SQUIX (except of SQUIX MT), MACH 4S, EOS, Hermes+ and PX
[4] SAP and all corresponding logos are trademarks or registered trademarks of SAP SE

Accessories for all types of devices

2.3

Print roller DR4-25
Material width up to 25 mm;
synthetic rubber coating for accurate imprint
Print roller DR4-50
Material width up to 50 mm;
synthetic rubber coating for accurate imprint

2.4

SD memory card
8 GB

2.5

USB memory stick
8 GB

2.6

USB WLAN stick
2.4 GHz 802.11b/g/n

2.7

USB WLAN stick
2.4 GHz 802.11b/g/n + 5 GHz a/n/ac
in infrastructure mode with rod antenna for extended reach

2.8

USB Bluetooth adapter

3.1

Connecting cable RS232 C
9/9 pin, length 3 m

4.1

Cutter
All printable materials can be cut.
The cutter can be pivoted to exchange the material.

Technical data		Cutter for EOS 2, EOS 5
Material Width	mm	120
Weight cardboard gr/m^2		60 - 240
Thickness	mm	0.05 - 1.1
Cutting length	from mm	10
Gap height	up to mm	2.5
Cuts/min	up to	200
Label winding		preferably outside
Monitoring		Cutter pivoted, final cutter position has not been reached

4.2

Cutter and perforation cutter
Continuous materials such as textiles or shrink tubes
are perforated before they are manually separated.
In addition, the materials can also be cut.
The cutter can be pivoted to exchange the material.

Technical data		Cutter and perforation cutter for EOS 2, EOS 5
Perforating Web distance	mm	2.5
Web width	mm	0.8
Material Width	mm	45
Weight cardboard gr/m^2		60 - 240
Thickness	mm	0.05 - 1.1
Cutting length	from mm	10
Gap height	up to mm	2.5
Cuts/min	up to	200
Label winding		preferably outside
Monitoring		Cutter pivoted, final cutter position has not been reached

Accessories

5.1

External unwinder

When inserted, the material rolls are automatically centered.
The unwinder cannot be installed with EOS mobile.

Technical data		External unwinder for EOS 2, EOS 5
Roll diameter	up to mm	390
Core diameter	from mm	38
Winding		outside or inside
Roll weight	up to kg	4

5.2

Brake for fanfold labels

for EOS 2 and EOS 5. The fanfold material
is tightly fed in the printer and printed precisely.
The brake cannot be installed with EOS mobile.

6.1

Battery pack

with a charger unit already included for mobile operation.
It is installed under EOS mobile. Per battery capacity,
a maximum of 500 print jobs with a label size of 100 x 68 mm
and 15 per cent density may be processed.

Technical data		Battery pack 2 for EOS 2, EOS 5
Nominal voltage	V	18
Capacity	Ah	2.1
Power	Wh	36
Charging time	approx. h	2
Charging voltage		100 - 240 VAC, 50/60 Hz

Delivery program

Pos.		Part no.	Printers
1.1		**5978201** **5978202**	Label printer EOS 2/200 Label printer EOS 2/300
1.2		**5978211** **5978212**	Label printer EOS 5/200 Label printer EOS 5/300
1.3		**5978202.600**	Label printer EOS 2 mobile/300
1.4		**5978212.600**	Label printer EOS 5 mobile/300

Scope of delivery
Label printer Power cable Type E+F, length 1.8 m Connecting cable USB, length 1.8 m Operator's manual DE / EN

DVD
Operator's manual in 30 languages
Configuration manual DE / EN / FR
Service manual DE / EN
Spare parts list DE / EN
Programming manual EN
WHQL certified Windows printer drivers for
    Windows Vista   Server 2008
    Windows 7   Server 2008 R2
    Windows 8   Server 2012
    Windows 8.1   Server 2012 R2
    Windows 10   Server 2016
Apple Mac OS X printer drivers DE / EN / FR
Linux printer drivers DE / EN / FR
Label software cablabel S3 Lite
cablabel S3 Viewer
Database Connector

Pos.		Part no.	Wear parts
2.1		**5966096.001** **5965580.001**	Print head 203 dpi Print head 300 dpi
2.2		**5965488.001**	Print roller DR4

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.

Information is also available on the Internet:
www.cab.de/en/eos

Pos.		Part no.	Accessories
2.3		**5966218.001** **5966219.001**	Print roller DR4-25 Print roller DR4-50
2.4		**5977370**	SD memory card 8 GB
2.5		**5977730**	USB memory stick 8 GB
2.6		**5978912.001**	USB WLAN stick 2.4 GHz 802.11b/g/n
2.7		**5977731**	USB WLAN stick with rod antenna 2.4 GHz 802.11b/g/n + 5 GHz a/n/ac
2.8		**5977732**	USB Bluetooth adapter
3.1		**5550818**	Connecting cable RS232 C 9/9 pin, length 3 m
4.1		**5965520** **5966730**	Cutter EOS 2 Cutter EOS 5
4.2		**5965910** **5969891**	Cutter and perforation cutter EOS 2 Cutter and perforation cutter EOS 5
5.1		**5965586**	External unwinder
5.2		**5953753**	Brake for fanfold labels
6.1		**5542640** **5542660**	Battery pack 2 EOS2 Battery pack 2 EOS5

Pos.		Part no.	Label software
11.7		**5588000**	cablabel S3 Lite
		5588001 **5588100** **5588101** **5588150** **5588151** **5588152**	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
		5588002 **5588105** **5588106** **5588155** **5588156** **5588157**	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
		in preparation	cablabel S3 Print Server
11.10		**9008486**	Programming manual EN, printed copy

cab product overview

Label printers MACH1, MACH2
in the lower price segment

Label printers MACH 4S
where little space is available

Label printers EOS2
Desktop device for label rolls
up to diameter 152 mm

Label printers EOS5
Desktop device for label rolls
up to diameter 203 mm

Label printers SQUIX 2
Industrial device for print widths
up to 57 mm

Label printers SQUIX 4
Industrial device for print widths
up to 108 mm

Label printers SQUIX 6
Industrial device for print widths
up to 168 mm

Label printers A8+
Industrial device for print widths
up to 216 mm

Label printers XD4T
for double-sided printing

Label printers XC
for two-color printing

Print and apply systems Hermes+
for automation

Print and apply systems Hermes C
for two-color printing and applying

Print modules PX
to be integrated in labeling machines

Labels
made from more than 400 materials

Ribbons
in wax, resin and resin/wax qualities

Label software cablabel S3
Design, print, control

Label dispensers HS, VS
for horizontal or vertical dispense

Labeling heads IXOR
to be integrated in labeling machines

Marking lasers FL+
with output powers 10 to 50 Watt

Laser marking systems XENO 1
for single workpieces and series