RC and CP Printable continuous strip labels

Technical Datasheet

TTDS-287 Revision 1
November 2023

RC and CP printable continuous strip labels are designed for use on terminal block assemblies and electrical components for identification purpose.

RC and CP continuous strip labels are made of high-quality PVC material for easy insertion.

These labels are designed to be thermal transfer printed with TE printers and ribbons that allow multiple prints at customized length, thanks to WinTotal software, available from TE.

After printing, RC and CP strips are to be slid in to adapted feature on SNA terminal block or carrier strip.

RC and CP continuous strip labels are supplied in rolls of 20 meters length in the "Protect, Print and Store Box".

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RC AND CP STRIP LABELS

Features

- Convenient slide-in strip thanks to material rigidity

- RC-Strip: Print 2 strips in 1 go, as RC-strip rolls contain 2 strips across

- CP-Strip: Mounting onto PLHA Label holder for component identification

- High print quality in 300 or 600 dpi using TE thermal transfer printers

Temperature rating

- Operation Temperature Range: -40°C to 80°C (-40°F to 176°F)

- Minimum Application Temperature: 5°C (41°F)

Applications

- Electrical Panel
- Industrial
- HVAC
- Automation

Design for Environment

- Does not contain any RoHS (EU 2015/863) substance

- Does not contain any California Prop 65 substances

- No restricted substances as listed in the Toxic Substances Control Act

- Further information and a downloadable declaration covering RoHS and REACH compliance can be found at the TE Product Compliance Support Centre:

- http://www.te.com/usa-en/utilities/product-compliance.html

Shelf life

- Two years when following good commercial storage practice detailed below.

Storage

- Product should be stored in the original packaging, with any plastic covers which were included during shipping.

- Store out of direct sunlight in a clean, dry, dust free, environment.

- Product should be stored at approximately 21°C (70°F) and 50% R.H.

Where possible, TE have tested product as a finished item, including the print. Operational tests are followed by an assessment of mark adherence to validate fit form and function.

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Typical Label Thickness

- Label: 0.350 mm / 0.0031 inch

Technical performance

	Requirements	Results
Print Permanence		
Marking of Electrical Insulating Materials, SAE AS 5942	Legible[1] (min. C3) after 20 rubs 1kg weight with an eraser	Pass
Resistance to solvents, MIL STD 202 Method 215	Legible[1] (min. C3) after 30 wipes	Pass
Fluid Exposure		
• IPA • Water • Teepol	Labels to remain legible[1] (min. C3) after 20 wipes with cloth soak on fluids (TE doc 109-121012)	Pass
Sinusoidal vibration		
IEC 61373	Marker does not fall out of terminal block Strip position in channel remain steady	Pass for side mounting[2]
Sulphur dioxide (SO$_2$) resistance		
ISO 6988	No damage to marker, print legible[1] (min. C3)	Pass
	Strip position in channel remain steady	Pass
Salt Mist		
IEC 60068-2 11 96hr (conc 5% NaCl) 35°C max. Followed by 20 dry rubs, 1kg	No damage to marker, print legible[1] (min. C3)	Pass
	Strip position in channel remain steady	Pass
Flammability test	UL94	VTM-0 Pass[3]

(1)   According to TE doc 411-121002
(2)   Top mounting not recommended for railway vibration
(3)   Performance rating only, not official certification

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Technical performance

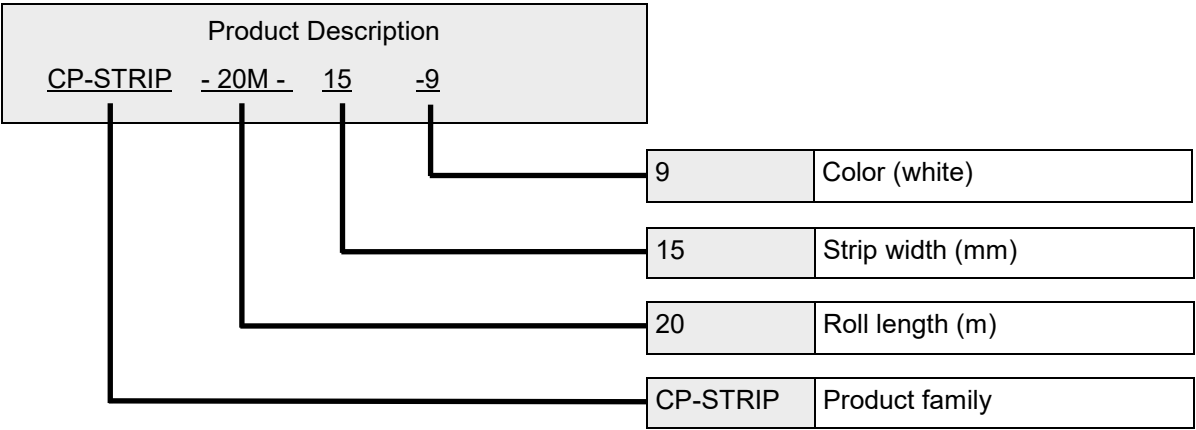|	Requirements	Results
Thermal performance		
Dry heat test IEC 60068-2 2	No damage to marker, print legible[1] (min. C3)	Pass[2]
Test Bb — 96hr @ 80°C		
Followed by 20 dry rubs, 1kg	Strip position in channel remain steady	Pass[2]
Low temperature test IEC 60068-2 1	No damage to marker, print legible[1] (min. C3)	Pass
Test Ab — 96hr @ -40°C		
Followed by 20 dry rubs, 1kg	Strip position in channel remain steady	Pass
Damp heat cycle IEC 60068-2 30	No damage to marker, print legible[1] (min. C3)	Pass[2]
Method variant 1 — 2 cycles @ 55°C and 95% R.H.		
Followed by 20 dry rubs, 1kg	Strip position in channel remain steady	Pass[2]
Climatic sequence IEC60068-2 61	No damage to marker, print legible[1] (min. C3)	Pass[2]
1 cycle		
Dry heat test — 16hr @ 85°C	Strip position in channel remain steady	Pass[2]
Damp cycle — @ 55°C and 95% R.H.		
Low temperature — 2hr @ -25°C		

(1)   According to TE doc 411-121002
(2)   Top mounting not recommended

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Ordering information

Product Description				
CP-STRIP	- 20M -	15	-9	

9	Color (white)
15	Strip width (mm)
20	Roll length (m)
CP-STRIP	Product family

Product description	Product order code	Number of strips	Strip width (mm)	Roll length (m)	Color
RC-STRIP-20M-7-9	1SNA235614R0000	2	7.8	20	White
RC-STRIP-20M-10-9	1SNA235615R0000	2	10.2	20	White
CP-STRIP-20M-15-9	1SNA235616R0000	1	15	20	White

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Printing and mounting instructions

Strip labels are supplied in a special box the "Protect, Print and Store Box". This box allows the customer to print the labels in the thermal transfer printer without having to remove them from the box and thus protecting the label from being touched and from the environment.
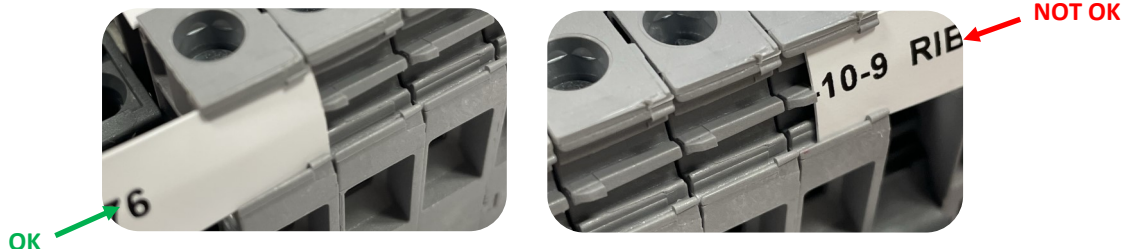

Continuous strip labels can be mounted in two different ways on the blocks:

Top mounting ⟶ ⟵ Side mounting
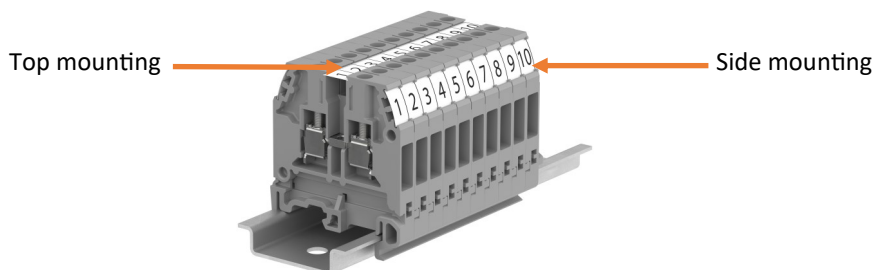
Mounting restrictions apply, see compatibility table page 7 for more information.

For all SNA and SNA compact blocks with pin in marking area (8 and 10 mm spacing) side mounting is only possible from the rounded side of the pin.

OK

NOT OK

Note: depending on the block side, the insertion direction changes (left to right or right to left).

SNA and SNA Compact Terminal block of 12mm (M16/12) and above are not compatible. (strip insertion is possible but too difficult to be recommended)

Component strip 1SNA235616R0000 CP-STRIP-20M-15-9 to be used with PLHA label holder(1SNA235887R0000).

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Printable continuous labels compatibility

SNA series

				RC-STRIP-20M-7-9	RC-STRIP-20M-10-9	
				1SNA235614R0000	1SNA235615R0000	
				Top Mounting	Top Mounting	Side Mounting
	Type	Pitch mm	Pitch in			
Screw clamp terminal blocks	MA2.5/5...	5	0.197		●	●
	M4/6...	6	0.236	●		●
	M4/8...	8	0.315	●		●
	M6/8...	8	0.315	●		●
	M10/10...	10	0.394	●		○
	M16/12...	12	0.472	●		○
	M35/16...	16	0.63	●		○
	D70/22...	22	0.866			○
	D95/26...	26	1.024			○

SNA Compact series

				RC-STRIP-20M-7-9	RC-STRIP-20M-10-9
				1SNA235614R0000	1SNA235615R0000
				Top Mounting	Side Mounting
	Type	Pitch mm	Pitch in		
Screw clamp terminal blocks	C2.5/5...	5	0.197	●	●
	C2.5/6...	6	0.236	●	●
	C4/6...	6	0.236	●	●
	C4/8...	8	0.315	●	●
	C6/8...	8	0.315	●	●
	C10/10...	10	0.394	●	○
	C16/12...	12	0.472	●	○

● Recommended
○ Possible

TE connectivity

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Printer information

Print quality and print performance can only be guaranteed when specific TE printer and ribbons are used.

The current list of printers and ribbons can be found in TE document 411-121005 'Identification Printer Product Ribbon Matrix'. This document can be found in 'Access our Tools':
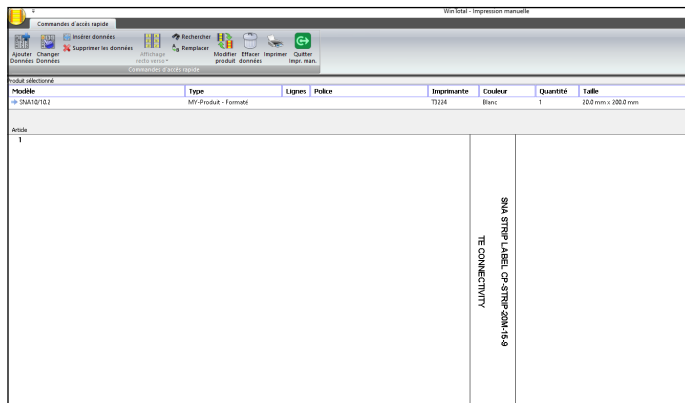
https://www.te.com/commerce/DocumentDelivery/DDEController?Action=showdoc&DocId=Specification+Or+Standard%7F411-121005%7F32%7Fpdf%7FEnglish%7FENG_SS_411-121005_32.pdf%7F557721-000vvvvvvv

Software

WINTOTAL software, available to download for a 14 day evalutation period from the Identification Printer Software page:

https://www.te.com/usa-en/products/identification-labeling/printers-software-and-accessories/printing-software/wintotal.html?tab=pgp-story

Contact a TE representative for further information.

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