Traceability requirements on product labels CSG for customer Ericsson

Revision History

Rev	Description	Datum	Rev'd by
A	Initial Release	30.08.2007	W. Moonen
B	Updated with additional pictures	20.03.2008	H. van Leeuwen
B1	Added extra pictures	07.04.2008	H. van Leeuwen
C	Updated with instructions for wrap around label	09.09.2008	H. van Leeuwen
D	Updated with instructions for outside package label	26.04.2010	W. Moonen
D1	Corrected typographical error in paragraph 7.2.1	10.05.2010	W. Moonen
D2	Added manufacturing location Ukraine CN4	20.08.2010	W. Moonen
E	Corrected text in par 7, corrected par 7.2 labeling to add readable text. Added par 8 packaging,	18.04.2012	W. Moonen
F	Added T.A. on wrap around label in par 6.1 and added new picture. Par 7.2: corrected picture and reference to barcode	21.12.2012	W. Moonen
G	Update 2D symbol data	16.03.2015	Qi Leo
H	Cable label add 2D barcode ,use new Ericsson logotype	23.10.2024	Will Zi
H1	*Numbering issue correction*	14.11.2024	Will Zi

Will Zi   DATE 23 OCT 2024

1 OBJECTIVE

Provide requirements on 'flag labels' 'wrap around labels' and "outside packaging labels "that are used as identity marking on cable assemblies for customer Ericsson and its first tier suppliers. Paragraph 5 is about flag labels, paragraph 6 is about wrap around labels, paragraph 7 is about outside packaging labels.

2 SCOPE

This procedure is applicable to all manufacturing sources where cable assemblies for Ericsson are produced.

3 REFERENCES

Ericsson marking instructions 102 01-113, 10201-BYB501 and 102 01-107.

4 REQUIREMENTS

The manufacturing source is responsible for printing correct information on the label and attaching the label correctly to the cable assembly.

In case of relabeling at another site than the original manufacturing source, all the information on the original manufacturing source and manufacturing date needs to be on new label as well. Dimensional requirements on the (position of) the new label need to be fulfilled.

The site that re-labels has to keep file on all relabeled assemblies (including quantities and possible remarks). This information needs to be communicated to the original site as well.

5 INSTRUCTIONS FOR FLAG LABEL

The Ericsson logotype shall be used on cables (i.e. product identity marking), when permitted by the size of the item to be marked. The first choice is the Econ logotype. The Econ is the simplest expression of our brand, and it should be used whenever the Ericsson context is clear and there is a limit space on the product label or package. Instructions for usage are given in 102 60-SVA 901 09 Uen.

Figure 1 Econ   Figure 2 Horizontal Wordmark+Econ

For each cable assembly where flag labels are required, one of the following labels has to be used:

5.1 PN 1294995-1, Ericsson part number   SVF 191 048/7.

Label Material: LZF 083 278 (86x22 mm))
Print file: 1/190 02-SVV 107 846/7

Figure 8: SVF 191 048/7 with sample data

Printer resolution: 300 dpi
Font size: 6 (Arial Narrow Bold) or A0,22,20 (Triumvirate Bold Condensed
2D symbol: Compact PDF417 (module width 2, row height 3x, error correction 3, columns 8)
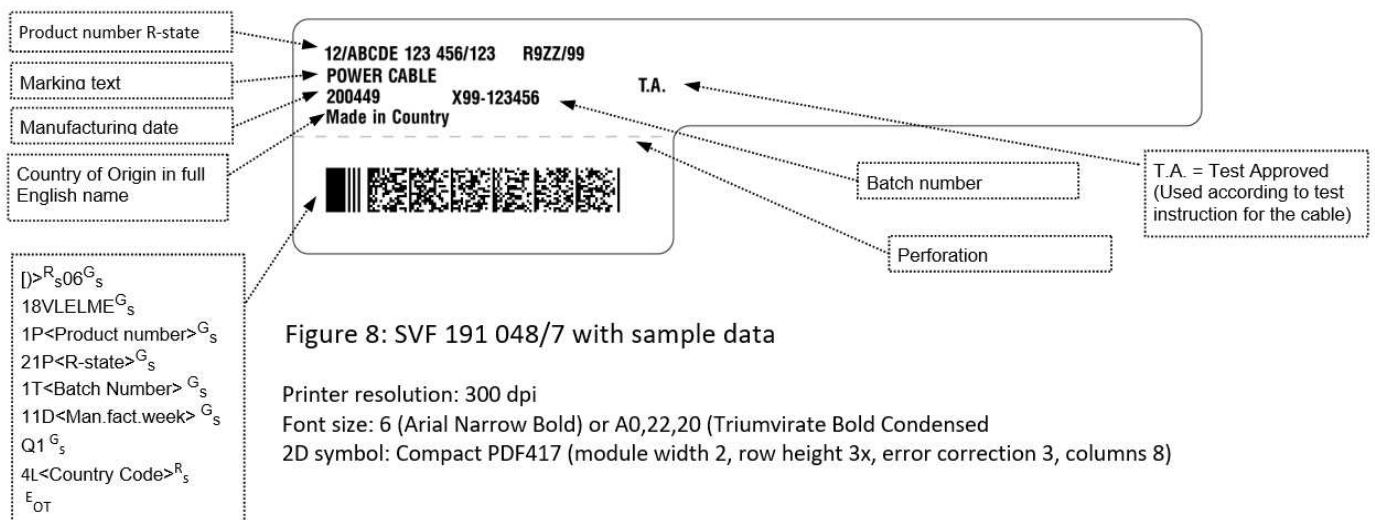
5.2   PN 1652799-1 2044036-3 1-2044036-3, 1-2044036-0，2148467-1 Ericsson part number   SVF 191 048/6.

- Label Material: LZF 083 278 (36X76mm or 86x22 mm)
  Print file: 1/190 02-SVV 107 846/6

Product number R-state	ABC 123 456/23 R3C
Marking text	Test Cable
Manufacturing week <YYYYWW>	202237 X99-123456
Made in <Country name>	Made in Sweden

Product number text **with blank steps**: ABC 123 456/23

T.A. = Test Approved
(if used according to test instructions for the cable)

1T<Batch number>

Ericsson e-con

Perforation

[)>$^R{}_s$06$^G{}_s$
18VLELME$^G{}_s$
1P<Product number>$^G{}_s$
21P<R-state>$^G{}_s$
1T<Batch Number> $^G{}_s$
11D<Man.fact.week> $^G{}_s$
Q1 $^G{}_s$
4L<Country Code>$^R{}_s$
E$_{OT}$

Product number in barcode to be scanned as ABC123456/23 **without blank steps.**

RPM 253 1610/10M   R2D
2f SM ARM G657A2, LC-DPLX 10M   T.A
202122   BB4-NB50002
Made in China

数据源
[)>
«RS»
06
«GS»
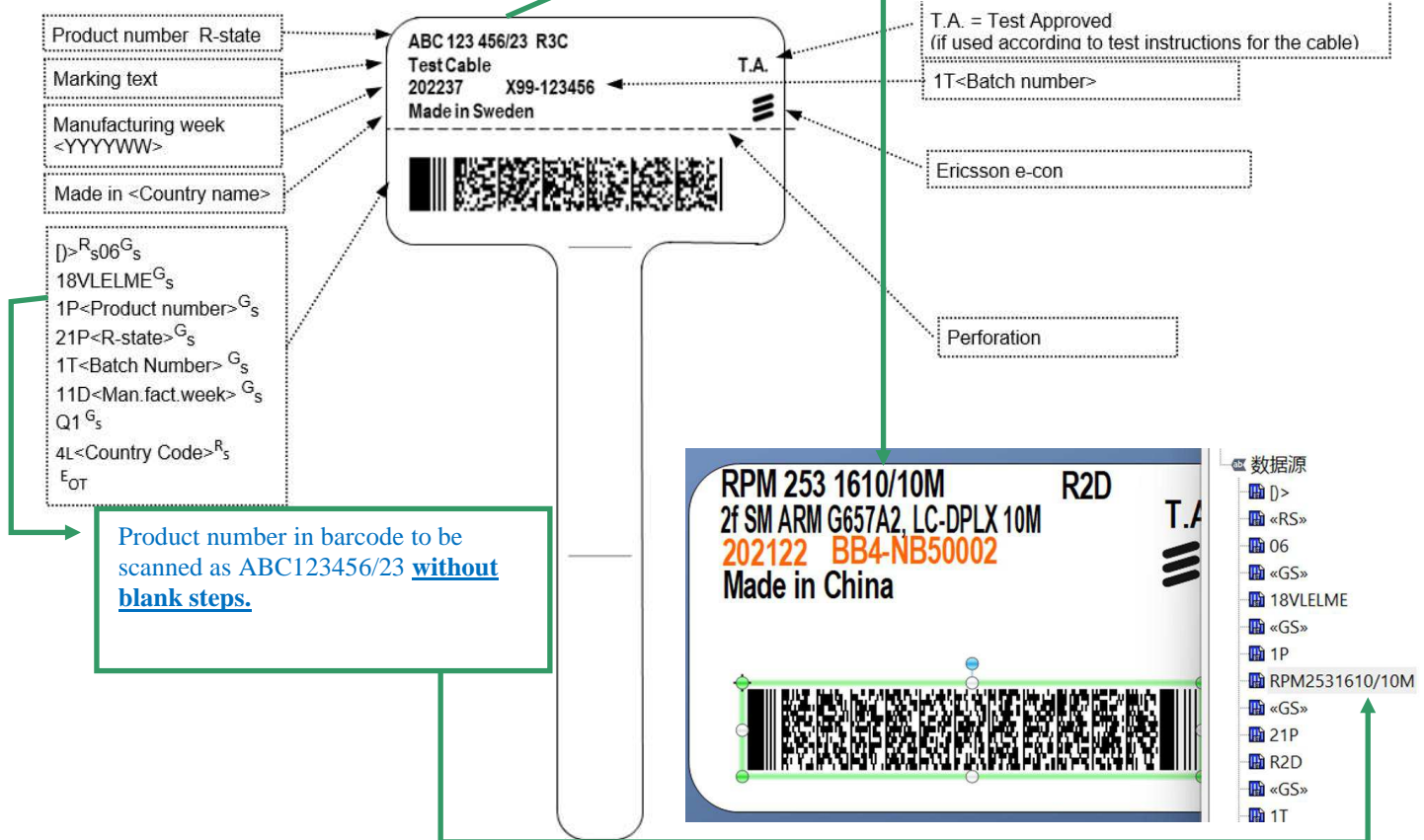18VLELME
«GS»
1P
RPM2531610/10M
«GS»
21P
R2D
«GS»
1T

Figure 7: SVF 191 048/6 with sample data

Printer resolution: 300 dpi
Font size: 6 (Arial Narrow Bold) or A0,22,20 (Triumvirate Bold Condensed)
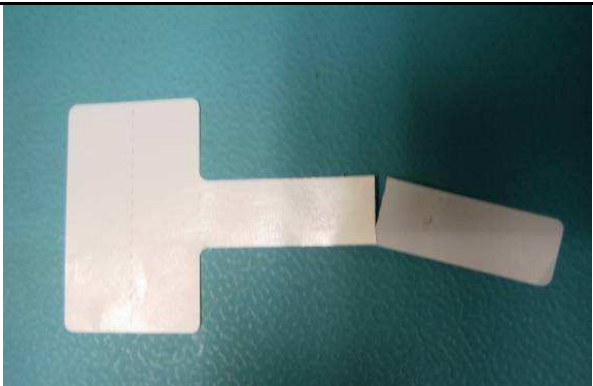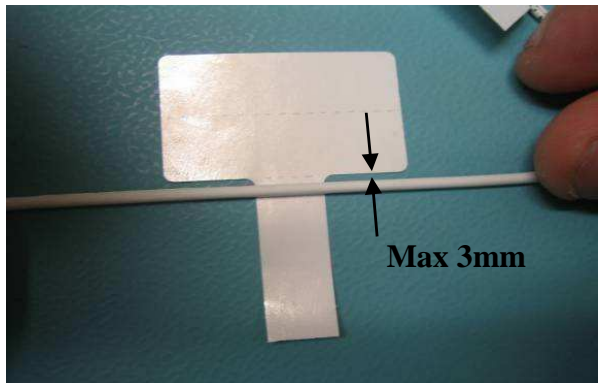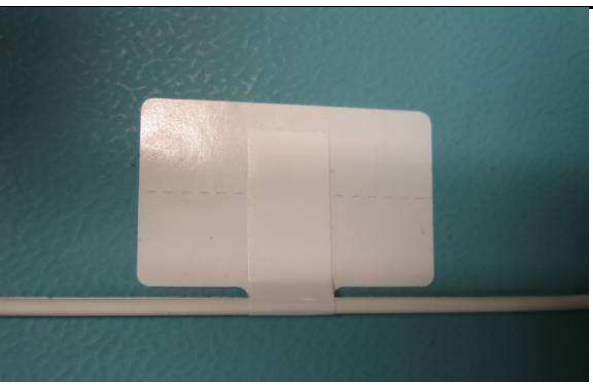2D symbol: Compact PDF417 (module width 2, row height 3x, error correction 3, columns 8)

The label must be printed according the lay-out as shown containing:
1. Product number is Ericsson Product number and R-state is Ericsson R-state
   Product number text ABC 123 456/23 **has blank steps,** but Product number in barcode to be scanned as ABC123456/23 **without blank steps**
2. Marking text is Ericsson Product name.
3. 1T<Batch number>:
   X99 here is the Manufacturing unit which is given on the attachment, which is supplier specific.
   123456 here is a serial number that the Manufacturing Unit can use to guarantee traceability.
4. Manufacturing week: Date of production format YYYY/WW (for example year 2022 week 37:202237)
5. Letters T.A. (Test Approved in bold)
6. Made in <Country name>: Country of origin in full English name (for example: Made in Sweden)
7. Ericsson Logo in font size 10.

Printing example:

8.   APPLYING T-SHAPED LABELS

1. When applying T-labels on small diameter cables (up to 5 mm), first tear off the bottom section of the label.	2. Next put the label on a flat surface with the sticky part facing up, and apply the cable as shown below. A maximum distance of 3 mm between the cable and the bottom of the label is allowed.
	 Max 3mm
3. Next fold the bottom part upward	4. Finally, fold the two sticky sections together, using the tear-line as fold line

5.3   Postitioning （label format and content below are not the latest）
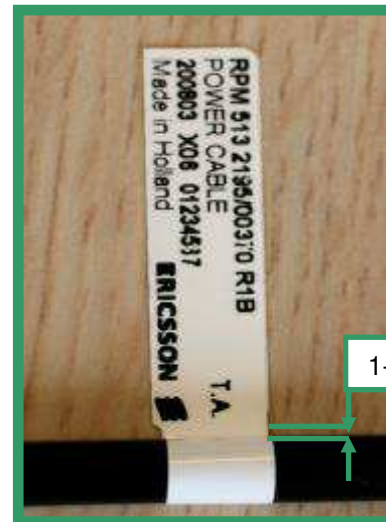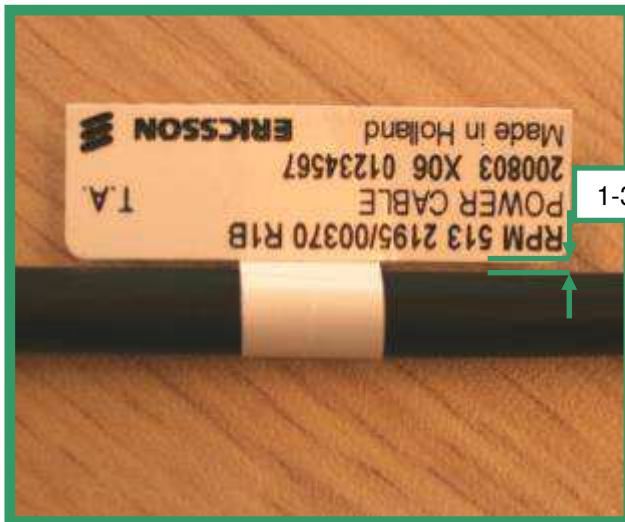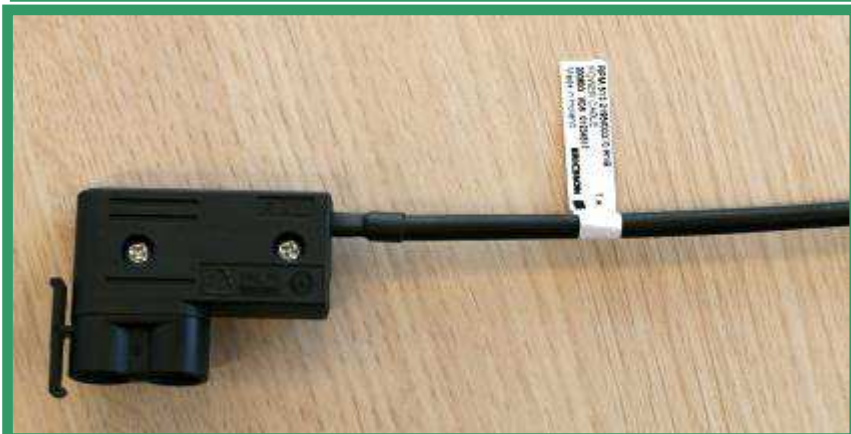

Gap between label and cable must be 1-3 mm. Label must be placed parallel with cable.

Orientation of label must be at 12 o'clock.

Orientation of label must be at 6 or 12 o'clock, depending on production drawing.

Orientation of label must be at 6 or 12 o'clock, depending on production drawing.

5.4   Rejections

All situations displayed in these sub paragraphs are unacceptable.

5.4.1   Printing errors (label format and content below are not the latest)
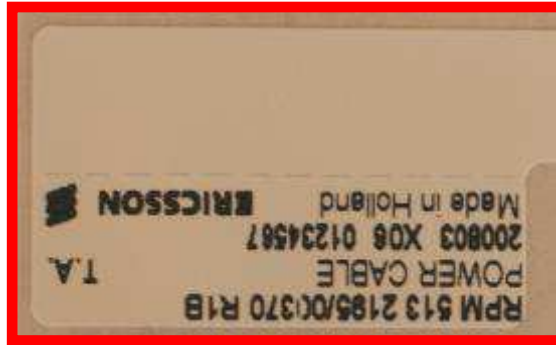
Both pictures: Text is upside down, printed on lower area instead of upper area. (text in wrong direction and area)

Both pictures: Printed on lower area instead of upper area. (text in wrong area)
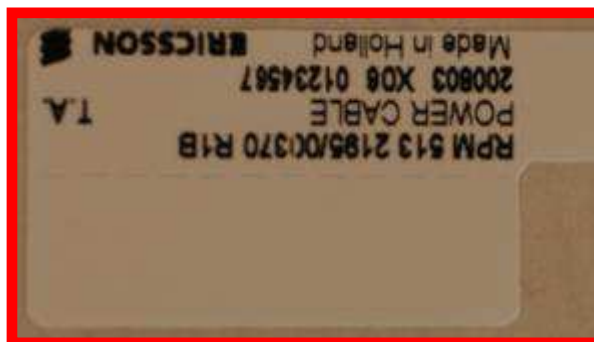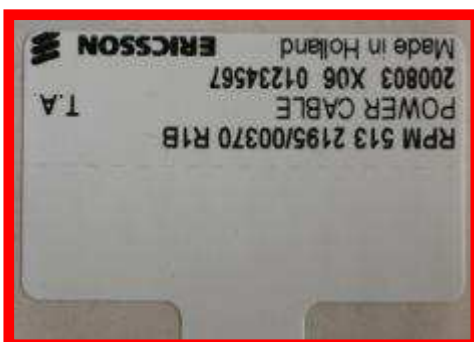
Printed upside down. (text in wrong direction)

5.4.2   Positioning errors (label format and content below are not the latest)

Label is not positioned at 12 o'clock

Gap between label and cable is greater than 3mm.

Gap between label and cable is less than 1mm.

Label is not folded straight.
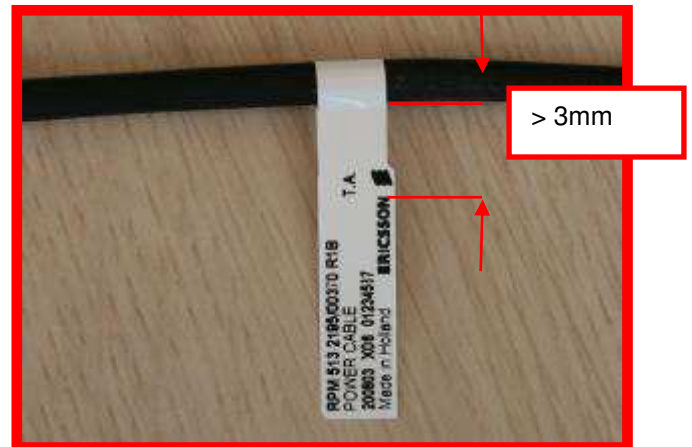
6 INSTRUCTIONS FOR WRAP AROUND LABELS

For each cable assembly where wrap around labels is required, one of the following label has to be used:

- PN E56137-000, Ericsson SVF 191 048/4
  Ericsson Print file: 1/190 02-SVV 107 846/4

NOTE: E56137-000 is according to the Ericsson specifications. It can happen that E56137-000 is not suitable for the raw cable. In that case an alternative should be found.
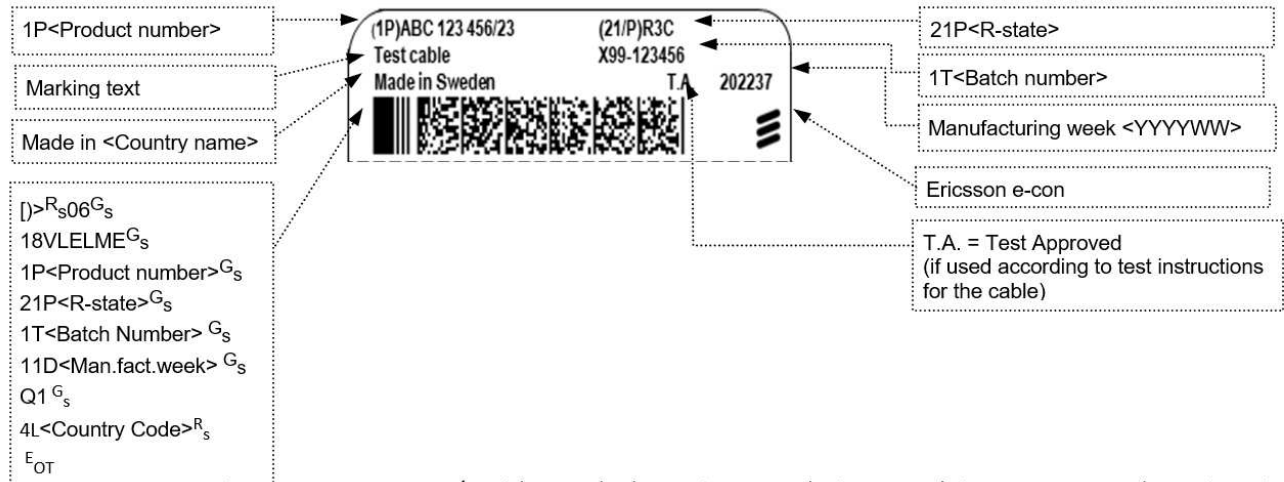
Figure 6: SVF 191 048/4 with sample data Printer resolution: 300 dpi Font: A0,17,13 (CG Triumvirate Bold Condensed)2D symbol: Compact PDF417 (module width 2, row height 3x, error correction 3, columns 8)

6.1 Printing

The label must be printed according the lay-out as shown containing:
1. Product number is Ericsson Product number and R-state is Ericsson R-state
   1P<Product number>: for example:(1P)ABC 123 456/23. The ABC 123 456/23 is the Ericsson P/N
   Product number in barcode to be scanned as ABC123456/23 **without blank steps.**
2. 21P<R-state>: for example:(21P)R3C. R3C is the Ericsson R-state.
3. Marking text is Ericsson Product name.
4. 1T<Batch number>:
   X99 here is the Manufacturing unit which is given on the attachment, which is supplier specific.
   123456 here is a serial number that the Manufacturing Unit can use to guarantee traceability.
5. Manufacturing week: Date of production format YYYY/WW (for example year 2022 week 37:202237)
6. Letters T.A. (Test Approved in bold)
7. Made in <Country name>: Country of origin in full English name (for example: Made in Sweden)
8. Ericsson Logo in font size 10.

6.1.1   Postitioning(label format and content below are not the latest)

Minimum recommended jacket diameter: 2.9mm
Can be used for smaller wires at customer's discretion or by contacting Tyco technical for assistance. See TTDS-052.

White area is completed covered by the transparent area.
There is no gap between cable and label.
The label has been positioned without wrinkles.
Label has been positioned straight with a maximum of 1mm.
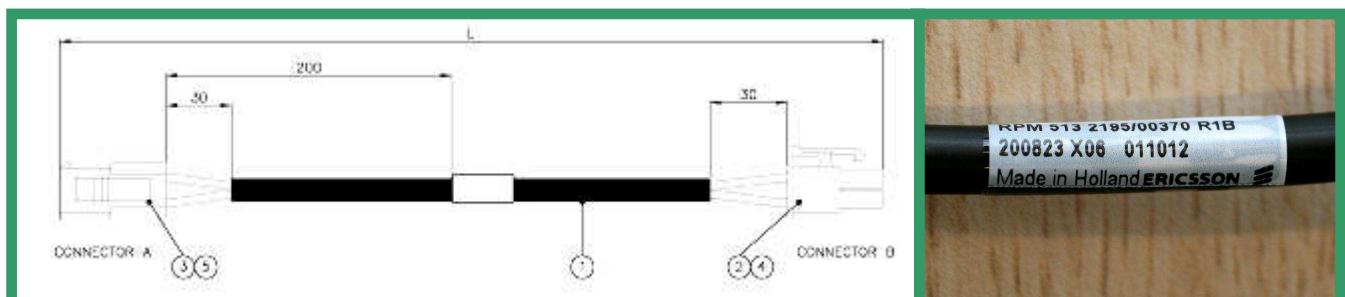
Reading direction

The text orientation must be readable from connector A to connector B, or from assembly side A to assembly side B

6.2   Rejections

All situations displayed in these sub paragraphs are unacceptable.

6.2.1   Printing errors (label format and content below are not the latest)

Text is printed up side down

Text is printed up side down, not on the bottom of white area.

Text is not printed on the bottom of white area.

6.2.2   Positioning errors(label format and content below are not the latest)

The transparent part of label is wrinkled; the transparent part is not completely covering white part of label.

There is a gap between label and cable, transparent part of label is not covering white part of label.

Transparent part of label is not covering white part of label.

Label is not positioned straight,
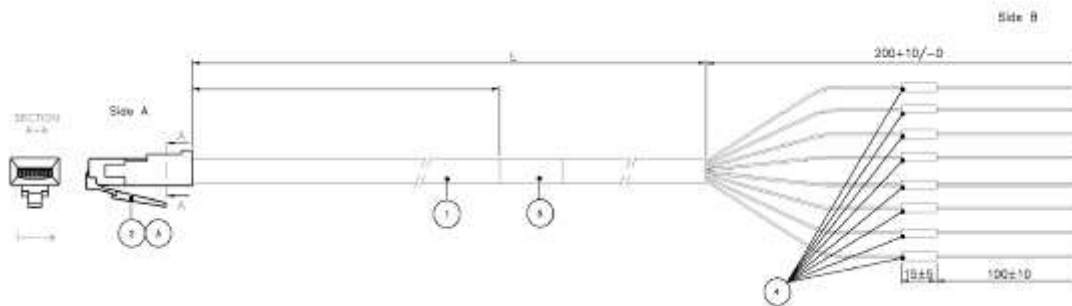
Text orientation is not in line with drawing.

7   INSTRUCTIONS FOR OUTSIDE PACKAGING LABELS

This instruction shall be used for Cables and for products of deliveries within Ericsson and from Ericsson or Ericsson contracted supplier to Ericsson customer.

NOTE:
Every outside package should contain a label with the number of components in that package as described in par 7.2

NOTE:
If several packages are packed together in another outside package, then that outer package should be labeled with the total volume as well.
For instance, 25 components packed and labeled in a bag, 4 bags in a box, then the box should be labeled with "100 pcs"

7.1   ESD packaging material:

Where practicable, the ESD protected packaging materials must be marked in accordance with recommended standards, as follows:
- Recycling symbol
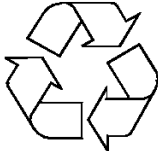
- ESD symbol

The goods should be packed in any suitable way, like below or any other suitable equivalent
- ESD bag smal   150x225   1/RTK 815 28/04   1344832-1
- ESD bag medium 250x300   1/RTK 815 28/06   1344833-1
- ESD bag large 300x450   RTK 993 5022/02   1344834-1
- Low Charging Plastic Tube   1/RTK 833 78   1652925-1

7.2 Outside packaging Label

NOTE:
Each outside package should contain a label according Ericsson labeling specification 102 01-107 paragraph 5.1.3 . Label to be used is LZF 083 255/3 (108x64mm) , Tyco 2073980-1 (100x50mm) or equivalent.

7.2.1 Printing

Printer resolution: 300dpi (or 600dpi)
Font: Arial or CG Triumvirate Bold Condensed
Barcode: Code 128 (No interruption line, mode A)
2D symbol: Compact PDF417 (truncated PDF417)

Date of production
11D YYYYWW or
12D YYYYMMDD

Data encoded followed by 1P 1P<F1>, where <F1> is Ericsson PN

Data encoded followed by Q Q<F8>, where <F8> is quantity

Data encoded followed by 1T 1T<F9>,
where <F9> is batch no:
MMDDHH   YYWK
MM – month   or   YY - year
DD – day   WK - week
HH - hour

Data encoded followed by 21P 21P<F2>, where <F2> is Ericsson R-state

Data encoded followed by 1V 1V<F5>, where <F5> is Factory code (see section 9)

<F17> is full country name in English

Data encoded followed by 4L 4L<F19>, where <F19> is ISO code of country name: PL for Poland.

(1P) Ericsson Product No
<F1>
(Q) Quantity
<F8>
(1T) Batch No
<F9>

(22P) Marking Text
<F3>
(11D) Manufactured
YYYYWW
Pb-free Category
(<LFS>)
(P) Customer Part No
<F7>
Gross Weight (kg)
<F12>

(21P) Ericsson R-state
<F2>
(1V) Factory Code
<F5>
(4L) Made in
<F17>

2D symbol. Data encoded as followed:
[)>06:18VLELME:1P<F1>:21P<F2>:11DYYYYWW:Q<F8>:1V<F5>:1T<F9>:4L<F17>

(1P) Ericsson product No
RPM777143/00750

(21P) Ericsson R-state
R2B

(Q) Quantity
1

(1V) Factory Code
BB4

(1T) Batch No
030515

(11D) Manufactured
201403

(4L) Made in
CHINA

Quality
Specification

The label has to be printed according the lay-out as shown. It is important that the readable text of the Barcode is exactly like shown in the example below. This barcode is being used in Ericsson's warehouse system.
The label should contain the following information:

1.	Product number (1P)	encoded data: 1PRPM777143/00750
2.	Revision state (21P)	encoded data: 21PR2B
3.	Quantity (Q)	encoded data: Q1
4.	Factory Code (1V) *1)	encoded data: 1VBB4
5.	Supplier Batch/lot number (1T)	encoded data: 1T030515
6.	Date of production (11D or 12D) *2)	encoded data: 11D201403
7.	Country of origin in full English name (4L) *3)	encoded data: 4LCN
8.	PDF417 barcode*4)	encoded data:

[)>06:18VLELME:1PRPM777143/00750:21PR2B:11D201403:Q1:1VBB4:1T030515:4LCN

*1) Manufacturing Unit, see paragraph 9
*2) Date of production format 11D YYYYWW or 12D YYYMMDD
*3) Readable barcode text for Country of Origin should be in ISO code.
*4) Compact PDF417 (truncated PDF417)

8   PACKAGING

This instruction prescribes the way of packaging required by Ericsson.
There are two main ways of packaging:
-    Bulk packaging
-    Single packaging

Whenever a part number is being ordered by two or more different locations at Ericsson and these locations require different method of packaging (bulk- or single packaging) the following requirements are mandatory:
-    A new part number (dash number) will be assigned.
-    This part number will be mentioned on the Production Drawing of that assembly.
     Production Drawing must be available in DSD
-    This part number will be mentioned in the cross-reference file for Customer Service.
     This file can be found on the Ericsson CT share point server under "Xref list Ericsson TE"
     http://myteams.tycoelectronics.com/sites/datcom/Customer_Focus_Teams/ERICSSON/default.aspx

The action items above are all under the responsibility of the Product Engineer (Customer Development Engineer)

8.1   Bulk packaging

The way of bulk packaging can be decided by the manufacturing unit based on the weight and size of the cable assemblies and the available packaging materials.
-    All outside packaging should be labeled per paragraph 7.2
-    All plastic packaging material should be ESD protected as described in par 7.1

8.2   Single packaging

Single packaging means:
-    ONE cable assembly (or part)
-    in ONE ESD protected bag
-    with ONE outside packaging label
-    with quantity 1 printed on the label.

Single packed items should be packed in a suitable ESD protected plastic bag, as mentioned in paragraph 7.1 , sealed or with zip-lock.

All plastic bags should have an outside label as described in paragraph 7.2 with the quantity 1 printed on the label.
A multiple of single packed plastic bags can be shipped in a suitable box, <u>ALSO</u> with an outside label as described in paragraph 7.2 with the quantity of items in the box, printed on the label.

Example Picture Single packaging   Example Picture Bulk packaging

9   SUPPLIER SPECIFIC MANUFACTURING UNIT CODES

Production Location	Current Manufacturing Unit Codes
Tyco Netherlands Rietveldenweg 32 5222 AR 's-Hertogenbosch Netherlands Tel +31 (0)73- 6246246 Fax +31 (0)73-6212365	X06
Tyco da Amazonia Brazil Av. Tucumã, 48 Distrito Industrial - Manaus Cep - 69075-220 Amazonas – Brazil Tel +55 92 2126 6300 Fax +55 92 613-3320	BA9
Tyco Poland Bydgoszcz UL. Unii Lubelskiej 4 Bydgoszcz Poland Tel +48 52-224960 Fax +48 52-3250-110	BB2
Tyco Poland loc. OV Tochprilad Berehivska 110 89600 Mukachevo Ukraine tel: +380 3131 42644 fax: +380 3131 44081	CN4
Tyco China loc. Kunshan Suhong Road Zhangpu Town Kunshan Economics & Tech Dev Zone Jiangsu Province PR China Tel +86 512-57443999 Fax +86 512-57445000	BB3
Tyco China loc. Dongguan 1st Industrial Zone Dajing, Houjie Town Dongguan City Guangdong Province PR China Tel +86 769-5815041 Fax +86 769-5819130	BB4
Tyco China loc. Shunde Rongli Industry Zone Ronggui Town Shunde Guangdong Province 528306 PR China Tel +86 765-8381368 Fax +86 765-8381456	BB8

Supplier specific Manufacturing Unit Codes (cont'd)

Tyco India loc. Bangalore   BQ5
TE Park 22B, Doddenakundi 2nd Phase
Mahadevapura Post Industrial Area
Whitfield Road
Bangalore – 560 048 India
Tel +91 80 28540800 -23
Fax +91 80 28540820

Gargnäs loc. Gargnäs   BB5
Byvagen 55
SE-920 73 Gargnäs
Sweden
Tel +46 952-538 00
Fax +46 952 538 50

Gargnäs loc. Riga   BB6
Starta Iela 1
LV-1026, Riga
Latvia
Tel +371 738 97 50
Fax +371 738 97 55

Elproman   BB7
Lövbacksvägen 3
S-141 71 Huddinge
Sweden
Tel: +46 8 970070
Fax: +46 8 6463148

Kablego   T65
Norrtullsvägen 15
SE 783-23 Säter
Sweden
Tel: +46 225 59 59 50
Fax: +46 225 59 59 69