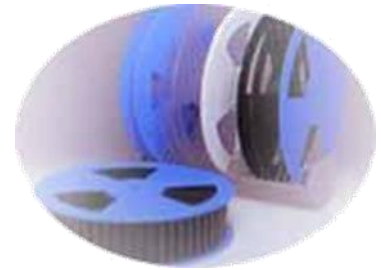


C-Pak Plastic Reels are divided into 4 main types. The first type is a solid piece (moulded) for the 7" and 13" reel. The second type is the ultrasonic welded. The third type is glued reels and is only for 13A7 56mm. The fourth type is using 3-piece latch concept.



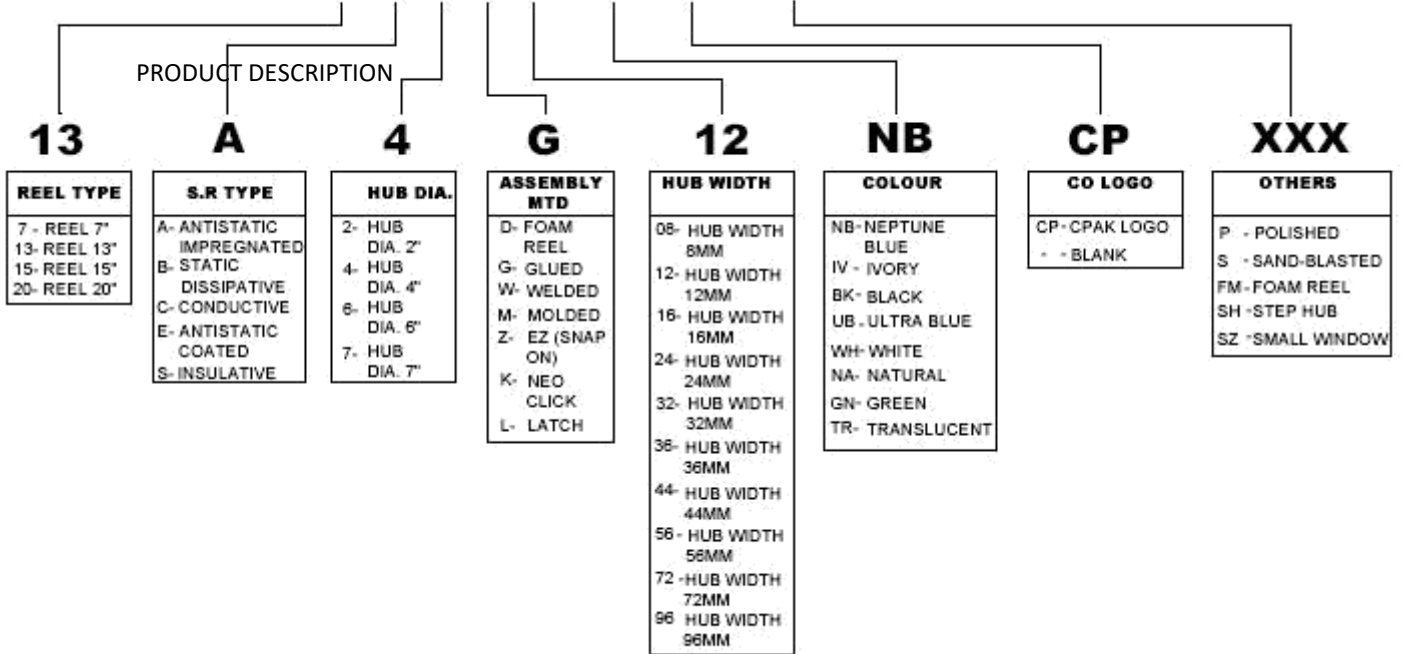
A special locking mechanism enable 2 pieces of 13" flange and hub to be assembled easily. Flanges and hubs are packed in a compact kit format and assembled when needed thus reducing storage space at user's end.

Hubs are available in widths of 8, 12, 16, 24, 32, 44, 56, 72mm and diameter of 2", 4", 6" and 7".

Reels are available in conductive, antistatic, and insulative polystyrene

SPECIFICATION			
Flange Diameter	:7 inch, 13 inch, 20 inch (Robust Reel)		
Hub Diameter	:2 inch, 4 inch, 6 inch, 7 inch		
Hub Width	:8, 12, 16, 24, 32, 44, 56 mm		
	SURFACE RESISTIVITY	SHELF LIFE	COLOUR
Conductive	<10E6 ohms/sq	Indefinite	Black
Static Dissipative	10E6 to 10E11 ohms/sq	Indefinite	Black
Antistatic Coated	<10E12 ohms/sq (RH ≥ 12%)	2 years	Refer to availability of colors in the product description below.
Antistatic Impregnated	<10E12 ohms/sq (RH 50%)	2 years	Refer to availability of colors in the product description below.
Insulative	>10E12 ohms/sq	Indefinite	Refer to availability of colors in the product description below.

13 A 4 G12 NB CP /XXX



PLASTIC REEL 7"

- Material** : Polystyrene
- Title** : 7"(180mm) Plastic Reel (Ø2" Hub)
- Surface Resistivity** : i) <10E6 ohms/sq. (Conductive)
ii) 10E6 to 10E11 ohms/sq. (Static Dissipative)
iii) <10E12 ohms/sq. (Anti-static)
iv) >10E12 ohms/sq. (Insulative)

TAPE SIZE	A MAX	B MIN	C	D MIN	E MIN	W1	N MIN	Assembly Method
08mm	180.0	1.5	13 ±0.2	20.2	4.0	8.4 ^{+1.5} _{-0.0}	60.0	*M
12mm	180.0	1.5	13 ±0.2	20.2	2.5	12.4 ^{+2.0} _{-0.0}	60.0	*M
16mm	180.0	1.5	13 ±0.2	20.2	2.5	16.4 ^{+2.0} _{-0.0}	60.0	*M
24mm	180.0	1.5	13 ±0.2	20.2	2.5	24.4 ^{+2.0} _{-0.0}	60.0	*M

All dimensions in millimeters unless otherwise stated

*M-Solid Molded

PLASTIC REEL13"

Material :Polystyrene
Title :13"(330mm) Plastic Reel
 (Ø2" Hub)

Surface Resistivity : i) <10E6 ohms/sq. (Conductive)

ii) 10E6 to 10E11 ohms/sq. (Static Dissipative)

iii) <10E12 ohms/sq. (Anti-static)

iv) >10E12 ohms/sq. (Insulative)

TAPE SIZE	A MAX	B MIN	C	D MIN	W1	W2 MAX	N MIN	Assembly Method
08mm	330.0	1.5	13 ±0.2	20.2	8.4 ^{+1.5} _{-0.0}	14.4	62.0	*W
12mm	330.0	1.5	13 ±0.2	20.2	12.4 ^{+2.0} _{-0.0}	18.4	62.0	*W
16mm	330.0	1.5	13 ±0.2	20.2	16.4 ^{+2.0} _{-0.0}	22.4	62.0	*W
24mm	330.0	1.5	13 ±0.2	20.2	24.4 ^{+2.0} _{-0.0}	30.4	62.0	*W
32mm	330.0	1.5	13 ±0.2	20.2	32.4 ^{+2.0} _{-0.0}	38.4	62.0	*W

All dimensions in millimeters unless otherwise stated

*W-Welded

PLASTIC REEL13"

Material :Polystyrene
Title :13"(330mm) Plastic Reel
 (Ø4" Hub)

Surface
Resistivity : i) <10E6 ohms/sq. (Conductive)

- ii) 10E6 to 10E11 ohms/sq. (Static Dissipative)
- iii) <10E12 ohms/sq. (Anti-static)
- iv) >10E12 ohms/sq. (Insulative)

TAPE SIZE	A MAX	B MIN	C	D MIN	W1	W2 MAX	N MIN	Assembly Method
12mm	330.0	1.5	13 ±0.2	20.2	12.4 +2.0 -0.0	18.4	100.0	*W
16mm	330.0	1.5	13 ±0.2	20.2	16.4 +2.0 -0.0	22.4	100.0	*W
24mm	330.0	1.5	13 ±0.2	20.2	24.4 +2.0	30.4	100.0	*W

32mm	330.0	1.5	13 ±0.2	20.2	-0.0	38.4	100.0	*W
					32.4 +2.0 -0.0			

All dimensions in millimeters unless otherwise stated

*W-Welded

PLASTIC REEL13"

Material :Polystyrene
Title :13"(330mm) Plastic Reel
 (Ø4" Hub)

Surface
Resistivity : i) <10E6 ohms/sq. (Conductive)

- ii) 10E6 to 10E11 ohms/sq. (Static Dissipative)
- iii) <10E12 ohms/sq. (Anti-static)
- iv) >10E12 ohms/sq. (Insulative)

TAPE SIZE	A MAX	B MIN	C	D MIN	N	W1	W2 MAX	Assembly Method
08mm	330.0	1.5	13 ±0.2	20.2	100.0	8.4 +1.5 -0.0	14.4	*W*M
12mm	330.0	1.5	13 ±0.2	20.2	100.0	12.4 +2.0 -0.0	18.4	*W*M
16mm	330.0	1.5	13 ±0.2	20.2	100.0	16.4 +2.0 -0.0	22.4	*W*M
24mm	330.0	1.5	13 ±0.2	20.2	100.0	24.4 +2.0	30.4	*W*M

32mm	330.0	1.5	13 ± 0.2	20.2	100.0	32.4 $\begin{smallmatrix} +2.0 \\ -0.0 \end{smallmatrix}$	38.4	*W*M
44mm	330.0	1.5	13 ± 0.2	20.2	100.0	44.4 $\begin{smallmatrix} +2.0 \\ -0.0 \end{smallmatrix}$	50.4	*W*M

All dimensions in millimeters unless otherwise stated

*W-Welded *M-Molded

PLASTIC REEL

Material : Polystyrene
Title : 13"(330mm) Plastic Reel
 (Ø4" Hub)

Surface

Resistivity : i) <10E6 ohms/sq. (Conductive)
 ii) 10E6 to 10E11 ohms/sq. (Static Dissipative)
 iii) <10E12 ohms/sq. (Anti-static)
 iv) >10E12 ohms/sq. (Insulative)

TAPE SIZE	A MAX	B MIN	C	D MIN	N	W1	W2 MAX	Assembly Method
12mm	330.0	1.5	13 ± 0.2	20.2	100.0	12.4 $\begin{smallmatrix} +2.0 \\ -0.0 \end{smallmatrix}$	18.4	*Latch
16mm	330.0	1.5	13 ± 0.2	20.2	100.0	16.4 $\begin{smallmatrix} +2.0 \\ -0.0 \end{smallmatrix}$	22.4	*Latch
24mm	330.0	1.5	13 ± 0.2	20.2	100.0	24.4 $\begin{smallmatrix} +2.0 \\ -0.0 \end{smallmatrix}$	30.4	*Latch
32mm	330.0	1.5	13 ± 0.2	20.2	100.0	32.4 $\begin{smallmatrix} +2.0 \\ -0.0 \end{smallmatrix}$	38.4	*Latch
44mm	330.0	1.5	13 ± 0.2	20.2	100.0	44.4 $\begin{smallmatrix} +2.0 \\ -0.0 \end{smallmatrix}$	50.4	*Latch
56mm	330.0	1.5	13 ± 0.2	20.2	100.0	56.4 $\begin{smallmatrix} +2.0 \\ -0.0 \end{smallmatrix}$	62.4	*Latch
72mm	330.0	1.5	13 ± 0.2	20.2	100.0	72.4 $\begin{smallmatrix} +2.0 \\ -0.0 \end{smallmatrix}$	78.4	*Latch

All dimensions in millimeters unless otherwise stated
 56 and 72mm hub is connected by hub joint

*Latch (EZ-Snap On)

PLASTIC REEL

Material :Polystyrene
Title :13"(330mm) Plastic Reel
 (Ø4" Hub)

Surface
Resistivity : i) <10E6 ohms/sq. (Conductive)

- ii) 10E6 to 10E11 ohms/sq. (Static Dissipative)
- iii) <10E12 ohms/sq. (Anti-static)
- iv) >10E12 ohms/sq. (Insulative)

TAPE SIZE	A MAX	B MIN	C	D MIN	N ±1.0	W1	W2 MAX	W3	Assembly Method
08mm	330.0	1.5	13 ^{+0.5} _{-0.2}	20.2	100.0	8.4 ^{+1.5} _{-0.0}	14.4	8.4 ^{+2.5} _{-0.5}	*Latch
12mm	330.0	1.5	13 ^{+0.5} _{-0.2}	20.2	100.0	13.0 ^{+2.0} _{-0.0}	18.4	12.4 ^{+3.0} _{-0.5}	*Latch
16mm	330.0	1.5	13 ^{+0.5} _{-0.2}	20.2	100.0	17.0 ^{+2.0} _{-0.0}	22.4	16.4 ^{+3.0} _{-0.5}	*Latch
24mm	330.0	1.5	13 ^{+0.5} _{-0.2}	20.2	100.0	25.0 ^{+2.0} _{-0.0}	30.4	24.4 ^{+3.0} _{-0.5}	*Latch
32mm	330.0	1.5	13 ^{+0.5} _{-0.2}	20.2	100.0	33.0 ^{+2.0} _{-0.0}	38.4	32.4 ^{+3.0} _{-0.5}	*Latch

All dimensions in millimeters unless otherwise stated

*Latch (2PC)

PLASTIC REEL

Material :Polystyrene
Title :13"(330mm) Plastic Reel
 (Ø6" & Ø7" Hub)

Surface
Resistivity : i) <10E6 ohms/sq. (Conductive)

- ii) 10E6 to 10E11 ohms/sq. (Static Dissipative)
- iii) <10E12 ohms/sq. (Anti-static)
- iv) >10E12 ohms/sq. (Insulative)

TAPE SIZE	A MAX	B MIN	C	D MIN	E MIN	N Ø6" / Ø7"	W1	W2 MAX	Assembly Method
12mm	330.0	1.5	13 ±0.2	20.2	2.5	178.0	12.4 +2.0 -0.0	18.4	*W*M
16mm	330.0	1.5	13 ±0.2	20.2	2.5	178.0	16.4 +2.0 -0.0	22.4	*W*M
24mm	330.0	1.5	13 ±0.2	20.2	2.5	178.0	24.4 +2.0 -0.0	30.4	*W*M
32mm	330.0	1.5	13 ±0.2	20.2	2.5	178.0	32.4 +2.0 -0.0	38.4	*W*M
44mm	330.0	1.5	13 ±0.2	20.2	2.5	152.0 / 178.0	44.4 +2.0 -0.0	50.4	*W*M
56mm	330.0	1.5	13 ±0.2	20.2	2.5	178.0	56.4 +2.0 -0.0	62.4	*G

All dimensions in millimeters unless otherwise stated

*W-Welded *M -
Molded *G-Glued

PLASTIC REEL

Material : Polystyrene
Title : 13"(330mm) Plastic Reel
 (Ø7" Hub)

Surface Resistivity : i) <10E6 ohms/sq. (Conductive)
 ii) 10E6 to 10E11 ohms/sq. (Static Dissipative)
 iii) <10E12 ohms/sq. (Anti-static)
 iv) >10E12 ohms/sq. (Insulative)

TAPE SIZE	A MAX	B MIN	C	D MIN	E MIN	N Ø6" / Ø7"	W1	W2 MAX	Assembly Method
12mm	330.0	1.5	13.0 +0.5 -0.2	20.2	2.5	178.0	12.4 +2.0 -0.0	18.4	*W
16mm	330.0	1.5	13.0 +0.5 -0.2	20.2	2.5	178.0	16.4 +2.0 -0.0	22.4	*W
24mm	330.0	1.5	13.0 +0.5 -0.2	20.2	2.5	178.0	24.4 +2.0 -0.0	30.4	*W

All dimensions in millimeters unless otherwise stated

*W-Welded(SZ)

PLASTIC REEL

Material :Polystyrene
Title :13"(330mm) Plastic Reel
 (Ø6" Hub)
Surface
Resistivity : i) <10E6 ohms/sq. (Conductive)
 ii) 10E6 to 10E11 ohms/sq. (Static Dissipative)
 iii) <10E12 ohms/sq. (Anti-static)
 iv) >10E12 ohms/sq. (Insulative)

TAPE SIZE	A MAX	B MIN	C	D MIN	N Ø6"	W1	W2 MAX	Assembly Method
44mm	330.0	1.5	13 ±0.2	20.2	152.0	44.4 +2.0 -0.0	50.4	*Latch

All dimensions in millimeters unless otherwise stated

*Latch (EZ-Snap On)

PLASTIC REEL

Material :Polystyrene
Title :15"(381mm) Plastic Reel
 (Ø4" Hub)
Surface
Resistivity : i) <10E6 ohms/sq. (Conductive)
 ii) 10E6 to 10E11 ohms/sq. (Static Dissipative)
 iii) <10E12 ohms/sq. (Anti-static)
 iv) >10E12 ohms/sq. (Insulative)

TAPE SIZE	A MAX	C	D MIN	N Ø4"	W1	W2 MAX	Assembly Method
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12mm	381.0	13 ±0.2	20.2	100.0	12.4 ^{+2.0} _{-0.0}	18.4	*Latch
16mm	381.0	13 ±0.2	20.2	100.0	16.4 ^{+2.0} _{-0.0}	22.4	*Latch
24mm	381.0	13 ±0.2	20.2	100.0	24.4 ^{+2.0} _{-0.0}	30.4	*Latch
32mm	381.0	13 ±0.2	20.2	100.0	32.4 ^{+2.0} _{-0.0}	38.4	*Latch
44mm	381.0	13 ±0.2	20.2	100.0	44.4 ^{+2.0} _{-0.0}	50.4	*Latch
56mm	381.0	13 ±0.2	20.2	100.0	44.4 ^{+2.0} _{-0.0}	50.4	*Latch

All dimensions in millimeters unless otherwise stated
56mm hub is connected by hub joint

*Latch (EZ-Snap On)

PLASTIC REEL

Material :Polystyrene
Title :15"(381mm) Plastic Reel (Ø6" Hub)
Surface
Resistivity : i) <10E6 ohms/sq. (Conductive)
 ii) 10E6 to 10E11 ohms/sq. (Static Dissipative)
 iii) <10E12 ohms/sq. (Anti-static)
 iv) >10E12 ohms/sq. (Insulative)

TAPE SIZE	A MAX	C	D MIN	N (Ø6")	W1	W2 MAX	Assembly Method
44mm	381.0	13 ±0.2	20.2	150.0	44.4 ^{+2.0} _{-0.0}	50.4	*Latch
56mm	381.0	13 ±0.2	20.2	150.0	56.4 ^{+2.0} _{-0.0}	62.4	*Latch
72mm	381.0	13 ±0.2	20.2	150.0	72.4 ^{+2.0} _{-0.0}	78.4	*Latch

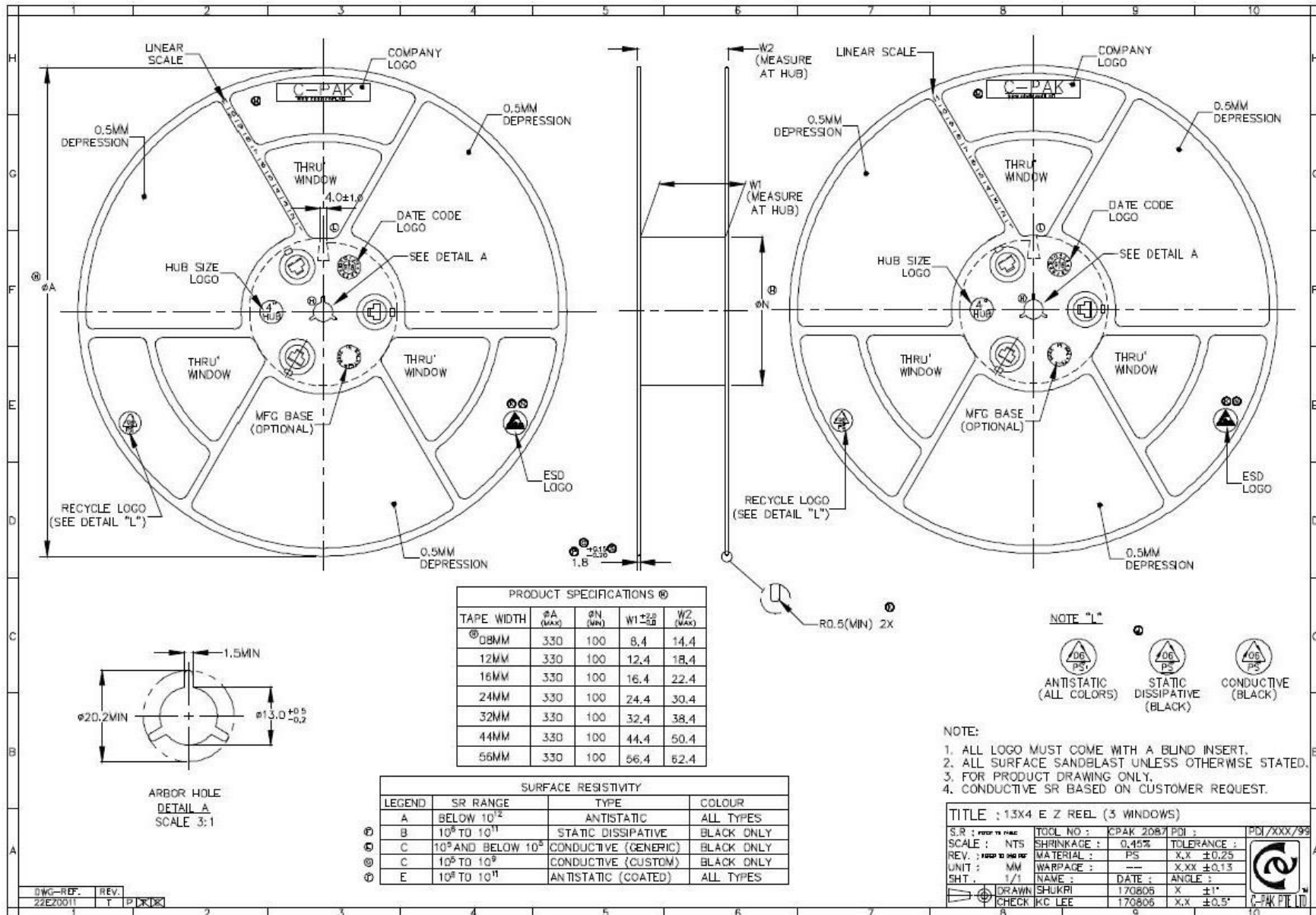
All dimensions in millimeters unless otherwise stated

*Latch (Neo-Click)

PLASTIC REEL

Material : Styrenic Alloy
 Title : 20" (508mm) Plastic Reel
 (Ø6" Hub)
 Surface
 Resistivity : i) <10E12 ohms/sq. (Anti-static)

TAPE SIZE	A +/-1.0	C	N (Ø6")	W1 +/-1.0	W2 MAX	W3 +5.0 -1.0	Assembly Method
96mm	508.0	25.5 +0.3 -0.0	152.0	96.0	109	96.0	*Glued
96mm	508.0	76.5 +0.2 -0.0	152.0	96.0	109	96.0	*Glued
All dimensions in millimeters unless otherwise stated							*G-Glued



PRODUCT SPECIFICATIONS ⑥

TAPE WIDTH	⑥A (MAX)	⑥N (MIN)	W1 ±0.05 (MIN)	W2 (MAX)
⑥08MM	330	100	8.4	14.4
12MM	330	100	12.4	18.4
16MM	330	100	16.4	22.4
24MM	330	100	24.4	30.4
32MM	330	100	32.4	38.4
44MM	330	100	44.4	50.4
56MM	330	100	56.4	62.4

SURFACE RESISTIVITY

LEGEND	SR RANGE	TYPE	COLOUR
A	BELOW 10^{12}	ANTISTATIC	ALL TYPES
B	10^9 TO 10^{11}	STATIC DISSIPATIVE	BLACK ONLY
C	10^9 AND BELOW 10^9	CONDUCTIVE (GENERIC)	BLACK ONLY
C	10^9 TO 10^9	CONDUCTIVE (CUSTOM)	BLACK ONLY
E	10^8 TO 10^{11}	ANTISTATIC (COATED)	ALL TYPES

NOTE "L"

ANTISTATIC
(ALL COLORS)

STATIC DISSIPATIVE
(BLACK)

CONDUCTIVE
(BLACK)

- NOTE:
1. ALL LOGO MUST COME WITH A BLIND INSERT.
 2. ALL SURFACE SANDBLAST UNLESS OTHERWISE STATED.
 3. FOR PRODUCT DRAWING ONLY.
 4. CONDUCTIVE SR BASED ON CUSTOMER REQUEST.

TITLE : 13X4 E Z REEL (3 WINDOWS)

S.R. : 22E20011	TOOL NO. : C-PAK 2087	PDI :	PDI/XXX/99
SCALE : NTS	SHRINKAGE : 0.45%	TOLERANCE :	
REV. : 1/1	MATERIAL : PS	X.X ±0.25	
UNIT : MM	WARPAGE : ---	X.XX ±0.13	
SHT. : 1/1	NAME :	DATE :	ANGLE :
DRAWN : SHUKRI	170805	X ±1°	
CHECK : KC LEE	170805	X.X ±0.5°	

DWG-REF.	REV.
22E20011	1

Gocar Electronic 