



MANUFACTURER: GK&B INDÚSTRIA DE COMPONENTES DA AMAZONIA LTDA.

ADDRESS: AV. BURITI, Nº 5500 – BL – 4-B MANAUS-AM BRAZIL

PHONE: DISTRITO INDUSTRIAL ZIP 69075-003

+55 92 3183 3004 / +55 92 3183-3040

E-MAIL: engenharia@gkeb.com.br / moises@gkeb.com.br

CLIENT	FOXCONN
DESCRIPTION	TYPE B CABLE USB 1,0M WHITE
CABLE	Ø 3,3mm, 30AWGX2+23AWGX2, NON-PVC, VW-1 WITH CARVING
APPLICATION	DATA CABLE
SUPPLIER	
GK&B P/N	10FB.0002.150B-0
DATE	2017.10.25

DIMENSIONS: (mm)	TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN Moisés Nogueira APD Fábio Dantas	DESCRIPTION	TYPE B CABLE USB 1,0M WHITE
	0 1 PIC	± 2MM 2 PIC			
00	Homologação do Produto – Emissão inicial	2017.10.25	13416	NOT NOT ✓ N/S	SCALE SIZE A4 1 of 28
REV	REVISION TAPY	DATE	DOCUMENT	PN CUSTOMER 10FB.0002.150B-0	PART NUMBER 10FB.0002.150B-0 00

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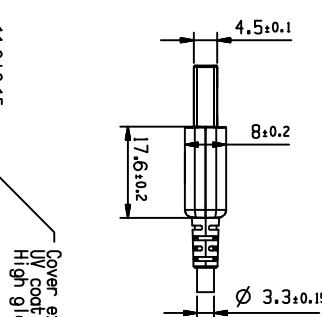
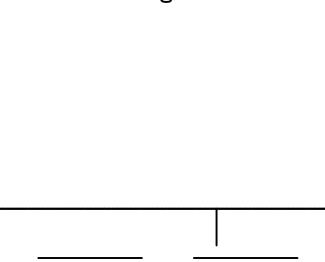
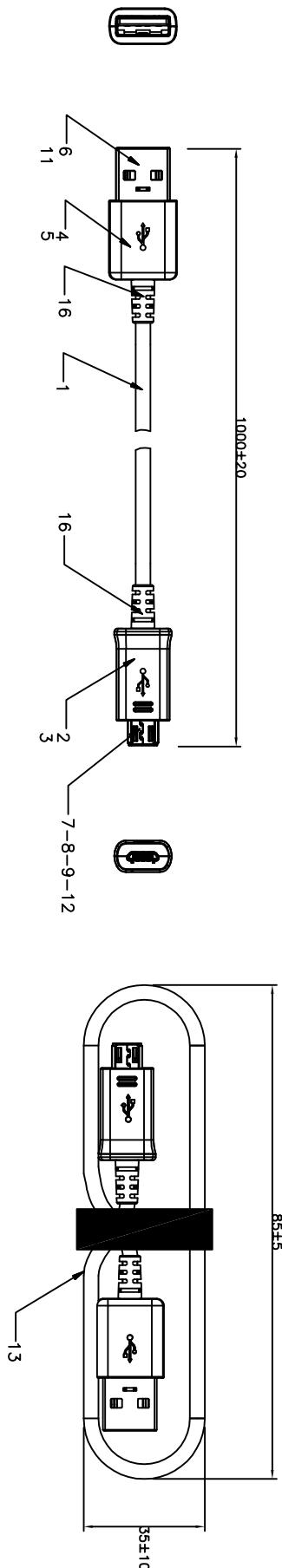
C

D



1- ASSY PROCESS

Note:
 A/B cover gap spec 0-0.15mm
 A/B cover over top spec 0-0.15mm



USB symbol:
 Pod printing
 Pantone cool
 grey 4C

PACKING QTY.: 400 units

TOOLING No.

PN: -

ITEM	PART NUMBER	DESCRIPTION	DIM	U/M
00	Homologação do Produto – Emissão inicial			
REV	REVISION TAPY			
00	2017.10.25	DATE	13416 DOCUMENT	
		SURFACE TEXTURE	NOT ✓	
		SCALE	SIZE A4	
		2 of 28	SHEET 10FB.0002.150B-0	
		N/S	PN CUSTOMER	
			PART NUMBER 10FB.0002.150B-0	
			REVISION 00	
8	7	6	5	4
5	3	2	1	

ITEM	PART NUMBER	DESCRIPTION	DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:	DMM Moisés Nogueira
			(mm)	ANGLES+		
01	0213.0SE1.113F-1	RAW CABLE 30AWGX2C 23AWGX2C OD3,3MM WHITE MICRO USB 5P LMP	0,975	m		
02	03D1.0UA1.246F-1	MICRO USB A COVER (TOP) TO 01578 A&B UA1246D	1	pç		
03	03D1.0UA1.247F-1	MICRO USB B COVER (BOTTOM) TO 01578 A&B UA1247D	1	pç		
04	03D1.0UA1.248F-1	USB A COVER (TOP) TO 01578 A&B UA1248D	1	pç		
05	03D1.0UA1.249F-1	USB B COVER (BOTTOM) TO 01578 A&B UA1249D	1	pç		
06	03D1.0UC0.589F-1	MICRO USB LOWER SHIELD (BLIND BOTTOM) TO 01578 E 01467	1	pç		
07	03D1.0UC0.588F-1	MICRO USB UPPER SHIELD (BLIND TOP) TO 01578 E 01467	1	pç		
08	03D1.0UC0.589F-1	MICRO USB CONNECTOR TO 01578 E 01550	1	pç		
09	03D1.0UG0.182D-1	MICRO USB CONNECTOR TO 01578 E 01550	1	pç		
10	03D1.0UC0.022F-0	FOLHA DE COBRE 20X4X0.05MM CF00022D	2	pç		
11	03D6.0UA1.250F-1	USB CONNECTOR+CAP GREEN TO 01578 WHITE	1	pç		
12	03D6.0UA1.252F-1	CAP TO MICRO USB UA1252	1	pç		
13	03D1.0UC0.589F-1	USB SHIELD SHELL (BLINDAGEM) UC00587D	1	pç		
14	0414.0060.015F-0	ETIQUETA AUTO ADESIVA BOPP FOSCO BR 60X15MM LMP	1	pç		
15	0414.1255.500F-0	SACO PLASTICO DATA CABLE PE BAND 55X125X0.05MM	1	pç		
16	0415.0000.048F-0	RESINA Z57595 A48285U-2SS TPE WHITE 10479W SD0048D	0,004	kg		
17	0530.5884.648F-0	CAIXA EMB. DATA CABLE COVER BOX BOTTOM 588X464X84MM	0,0025	pç		
18	0530.6055.058F-0	TAMPA EMB. DATA CABLE COVER BOX TOP 605X505X88MM	0,0025	pç		

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INDUSTRIAL DE
COMPONENTES DA
AMAZÔNIA LTDA

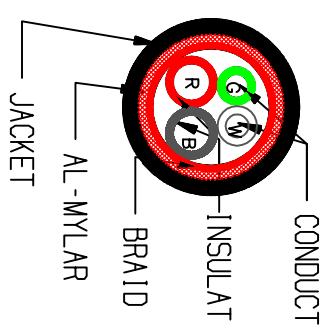
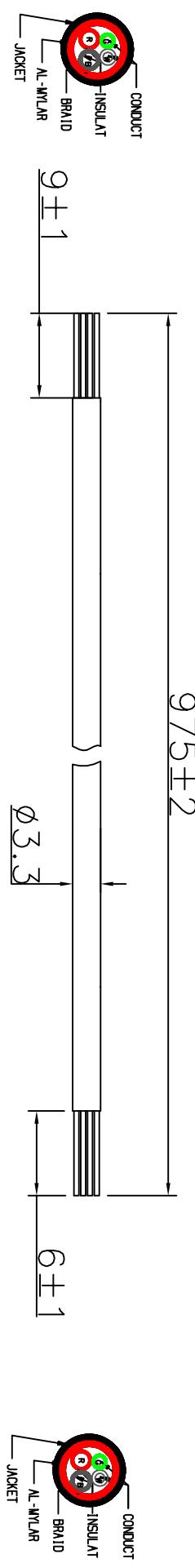
Brazil

Manaus,



2.1- CABLE ASSY

2- Cable Assy Process



TOOLING No.

PN: -

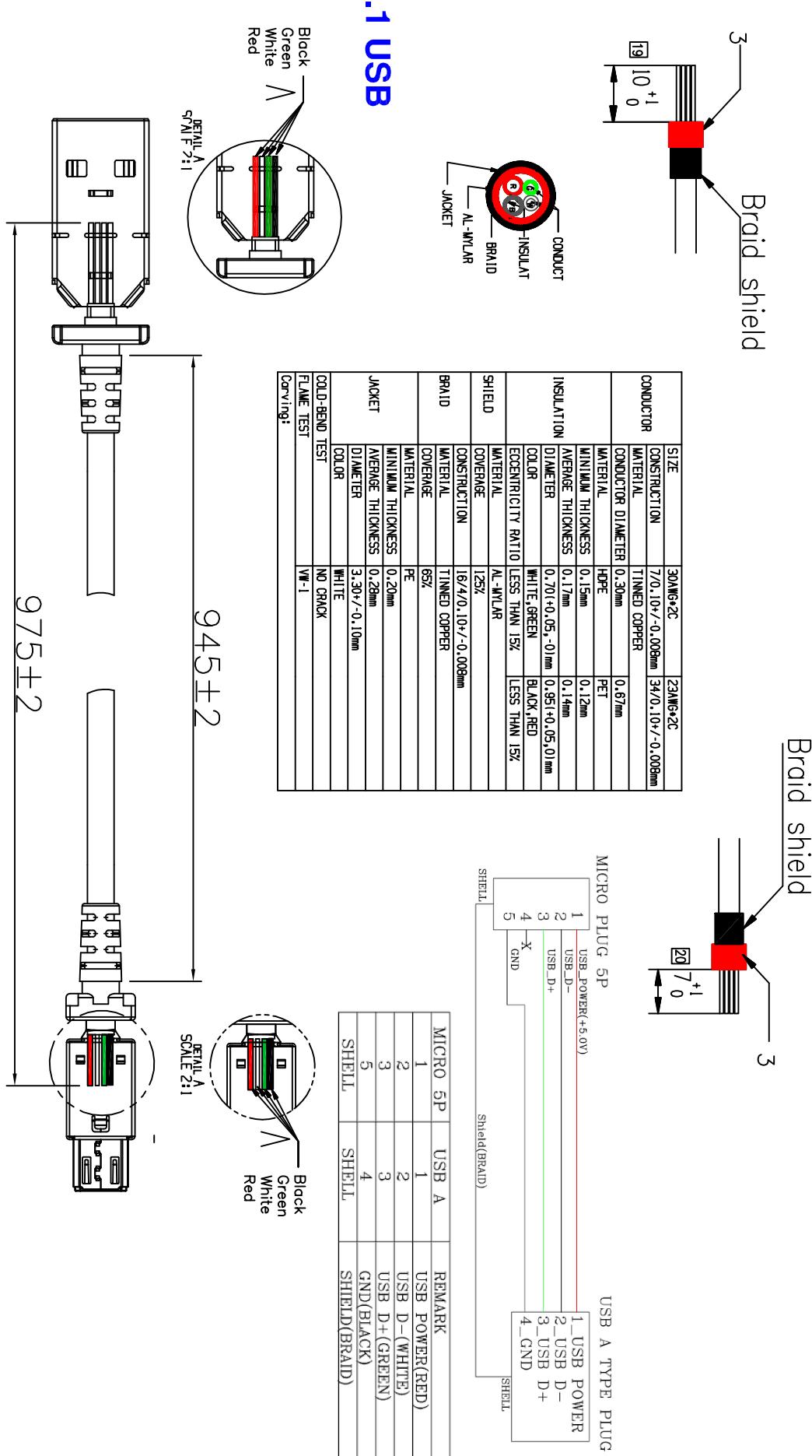
REV	Homologação do Produto – Emissão inicial			DATE	DOCUMENT
00	2017.10.25	13416			

DIMENSIONS: (mm)	TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN Moisés Nogueira APD Fábio Dantas	APD GK&B COMPONENTES DA AMAZÔNIA LTDA Manaus, Brazil
	0 1 PIC	± 2MM ± 2MA		
ANGLES ± NOT SURFACE TEXTURE NOT ✓ N/S	NOT ✓ N/S	SCALE SIZE A4	SHEET 3 of 28	P/N CUSTOMER 10FB.0002.150B-0

A D



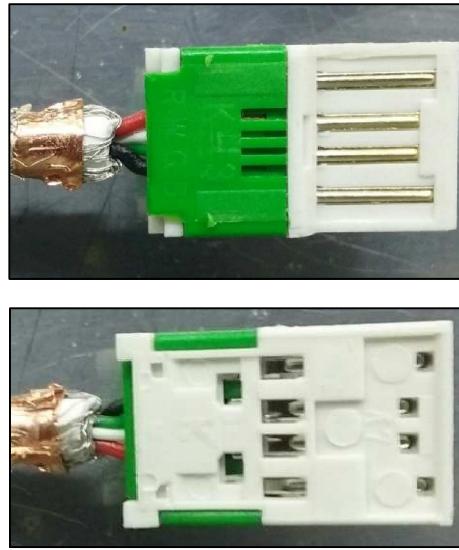
3- USB and uUSB Assy



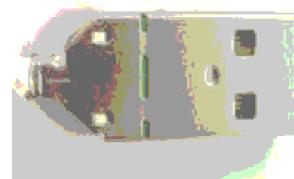


4- USB ASSY

HOUSING



SHILD COVER



USB



00	Homologação do Produto – Emissão inicial	2017.10.25	13416
REV	REVISION TAPY	DATE	DOCUMENT

ANGLES [±]	NOT	NOT	SCALE	SIZE	SHEET	P/N	CUSTOMER	PART NUMBER	REVISION
			N/S	A4	5 of 28	14016-000215		10FB.0002.150B-0	00

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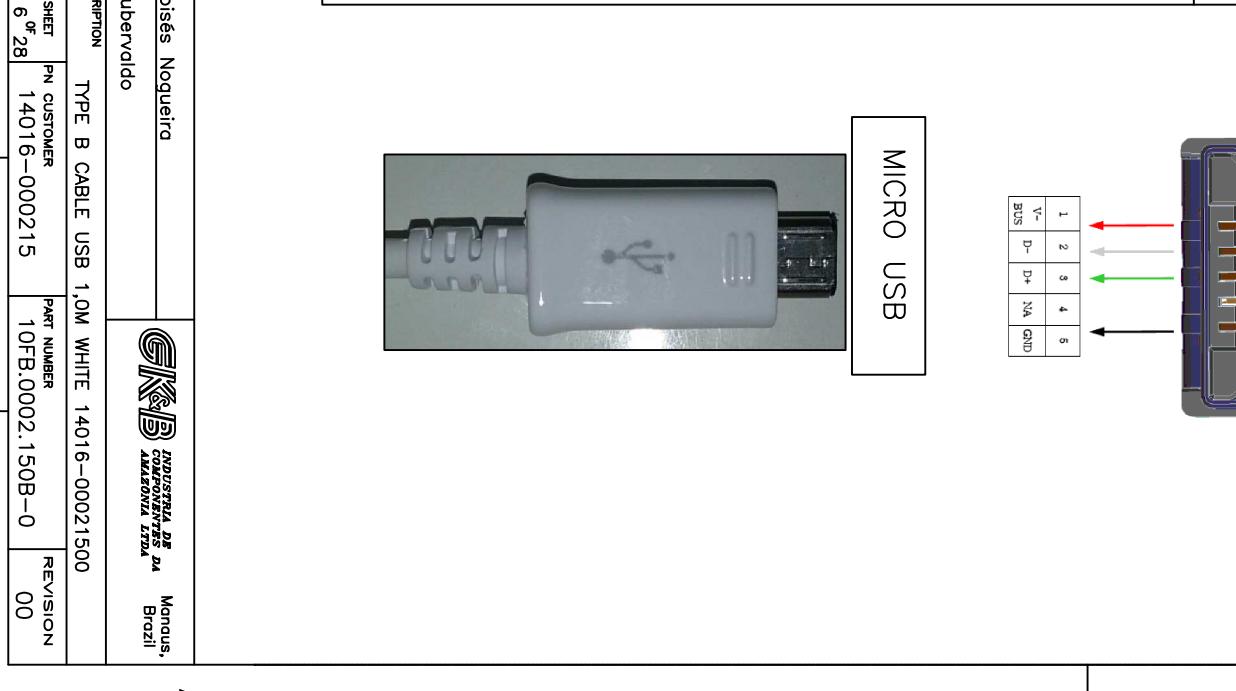
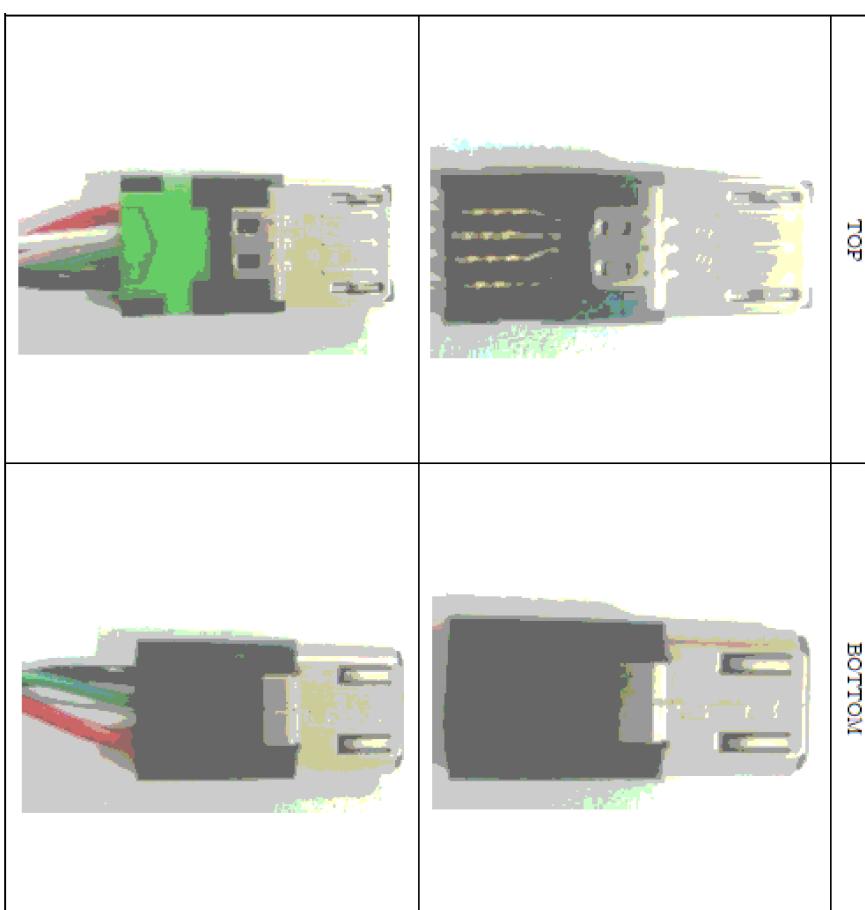
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5- uUSB ASSY.

REV	Homologação do Produto – Emissão inicial	DATE	DOCUMENT
00	2017.10.25	13416	

DIMENSIONS: (mm)		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN Moisés Nogueira		APPROVED Rubervaldo		DESCRIPTION	
ANGLES [±]	NOT	NOT	✓	0	PLC	± 2MM			
				1	PLC	± 2MM			
				2	PLC	± 2T2			
				3	PLC	± 2T3			
				4	PLC	± 2T4			
ANGLE [±]	NOT	NOT	✓	SCALE	SIZE	SHEET	P/N	CUSTOMER	
				N/S	A4	6 of 28	14016-000215		
REV	00	REVISION	TAPY				PART NUMBER	10FB.0002.150B-0	REVISION
								00	00



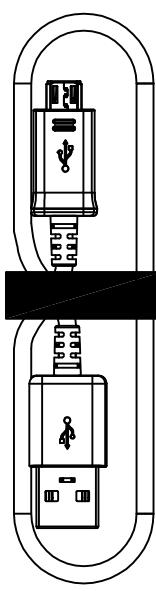
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6- DATA LINK CABLE

DATA LINK CABLE



MICRO USB BOTTOM



MICRO USB TOP



USB TOP



USB BOTTOM

TOOLING No.

PN: -

REV	Homologação do Produto – Emissão inicial	DATE	DOCUMENT
00	2017.10.25	13416	

ANGLES [±]	NOT	SCALE	SIZE	SHEET	PN CUSTOMER	PART NUMBER	REVISION
	NOT ✓	N/S	A4	7 of 28	14016-00021500	10FB.0002.150B-0	00

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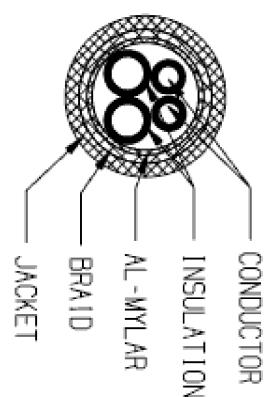
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7- SPEC CABLE

SIZE	30AWG*2C	23AWG*2C
CONSTRUCTION	7/0.10+/-0.008mm	34/0.10+/-0.008mm

CONDUCTOR MATERIAL	TINNED COPPER	CONDUCTOR
CONDUCTOR DIAMETER	0.30mm	0.67mm
MATERIAL	HDPE	PET
MINIMUM THICKNESS	0.15mm	0.12mm
AVERAGE THICKNESS	0.17mm	0.14mm
DIAMETER	0.701+0.05, -0.1mm	0.951+0.05, 0.1mm
COLOR	WHITE, GREEN	BLACK, RED
ECCENTRICITY RATIO	LESS THAN 15%	LESS THAN 15%



SHIELD	MATERIAL	AL-MYLAR
COVERAGE	CVERAGE	125%
JACKET	CONSTRUCTION	16/4/0.10+/-0.008mm
BRAID	MATERIAL	TINNED COPPER
MATERIAL	COVERAGE	65%
MINIMUM THICKNESS	0.20mm	
AVERAGE THICKNESS	0.28mm	
DIAMETER	3.30+/-0.10mm	
COLOR	WHITE	
COLD-BEND TEST	NO CRACK	
FLAME TEST	VW-1	

Caving: (E No) -CS UL AWM (STYLE No) 80C 30V VW-1 (SUPPLIER NAME) (S) HX NON-PVC NON-P

1/1 X 80C 30V FTI

(SUPPLIER NAME) (S) HX NON-PVC NON-P

UL AWM

1/1 X 80C 30V FTI

(SUPPLIER NAME) (S) HX NON-PVC NON-P

UL AWM

1/1 X 80C 30V FTI

(SUPPLIER NAME) (S) HX NON-PVC NON-P

UL AWM

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1/1 X 80C 30V FTI

(SUPPLIER NAME) (S) HX NON-PVC NON-P

UL AWM

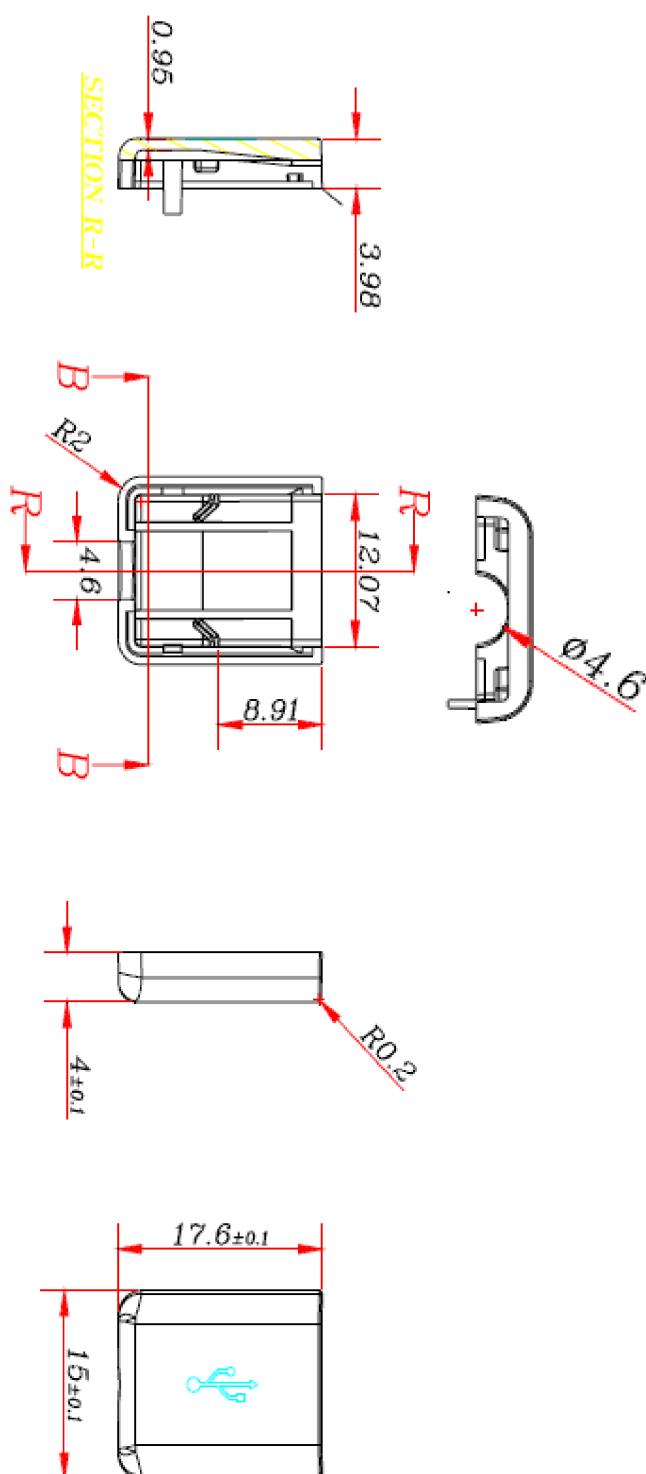
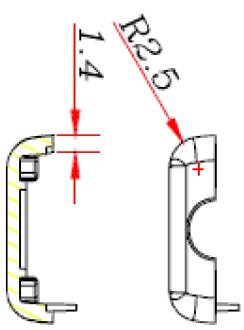
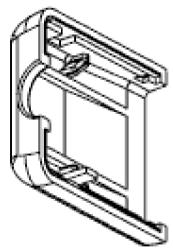
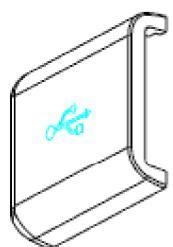
TOOLING No.

PN: -

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GK&B INDUSTRIA DE COMPONENTES DA AMAZÔNIA LTDA
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WITHOUT WRITTEN AUTHORIZATION FROM GK&B
MANAUS, AMAZONAS, BRAZIL.



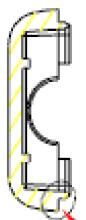
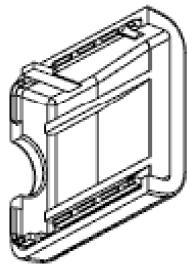
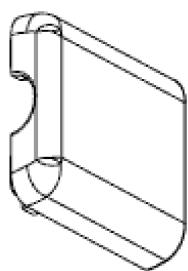
8- USB CASE UPPER WHITE



DIMENSIONS: (mm)		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DWG Moisés Nogueira		GKB INDUSTRIAL DE COMPUTADOR DA AMAZÔNIA LTDA Brazil	
		0 PIC	$\pm .2MM$	APVO	Fábio Dantas		
1 PIC	$\pm .2MM$	2 PIC	$\pm .2MM$	3 PIC	$\pm .2MM$	4 PIC	$\pm .2MM$
SURFACE TEXTURE	NOT ✓	SCALE N/S	SIZE A4 9/028	MANUFACTURER ANTENK	DESCRIPTION USB A COVER UPPER WHITE TO 01578 UA1248D		
ANGLES±	NOT ✓	PART NUMBER 03D1.0UA1.248F-1		REVISION 00			



9- USB CASE LOWER WHITE



174

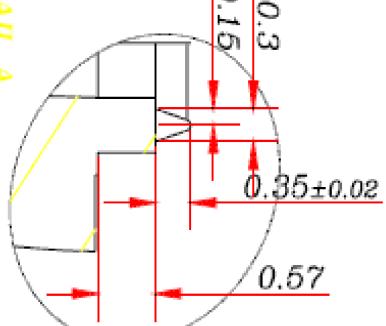
SECTION R-R

0.95 3.98

B = 2.68 R = 12.2 T = 4.6

A technical drawing of a mechanical part. A horizontal slot is shown with a dimension of 4 ± 0.1 mm. A red arrow indicates a rotation angle labeled RO_2 .

A technical drawing of a component with two dimensions indicated by red arrows: a width of 17.6 ± 0.1 and a height of 15 ± 0.1 .



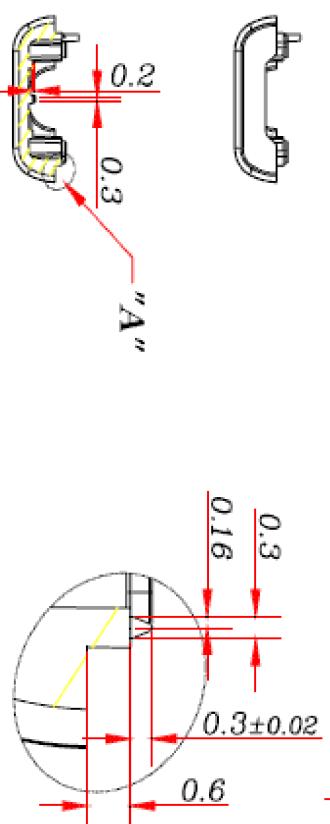
DIMENSIONS: (mm)		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN BY Moisés Nogueira		APPROVED BY Fábio Dantas		DESCRIPTION	
 		0 PLC ± ZMM 1 PLC ± ZMA 2 PLC ± ZTB 3 PLC ± ZTS 4 PLC ± ZTA						USB B COVER LOWER WHITE TO 01578 UA1249D	
ANGLES±	NOT	NOT ✓	SURFACE TEXTURE	SCALE N/S	SIZE A4	SHEET OF 28	MANUFACTURER ANTENK	PART NUMBER 03D1.0UA1.249F-1	REVISION 00



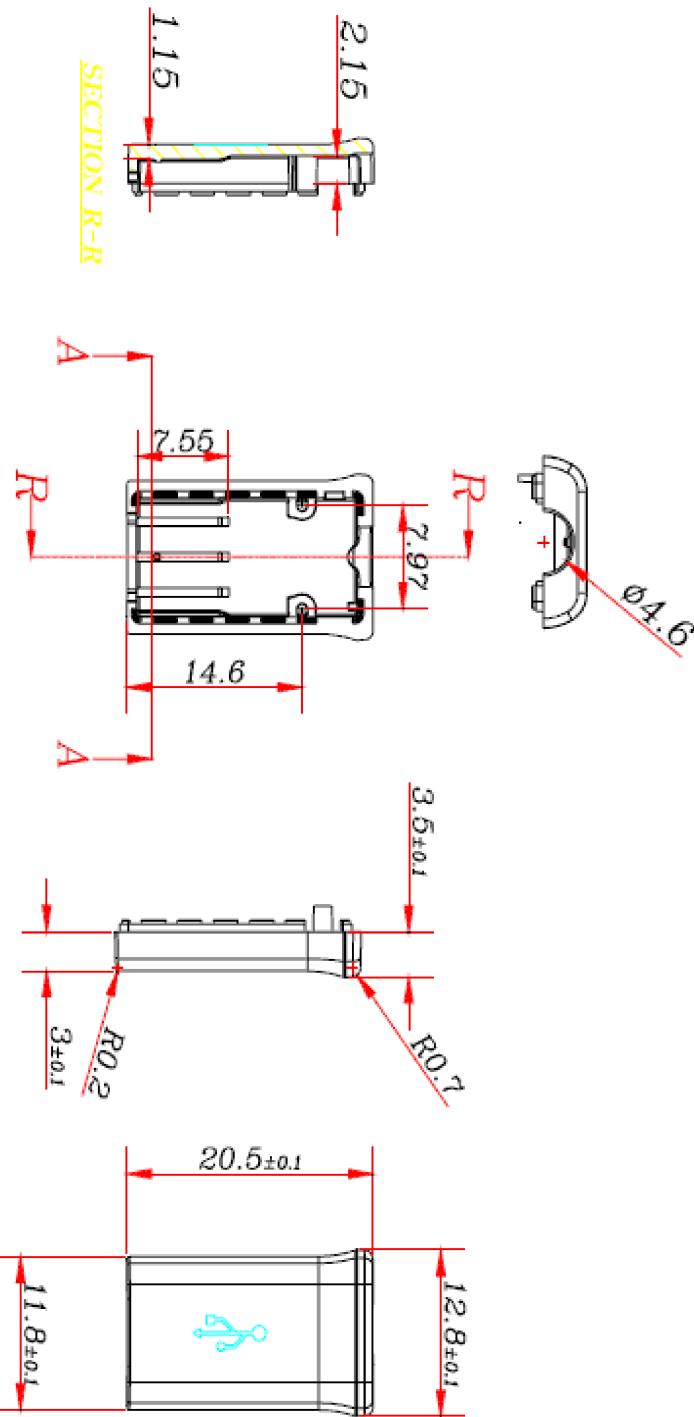
10- MICRO USB CASE UPEER WHITE

SECTION A-A

DETAIL A



SECTION R-R



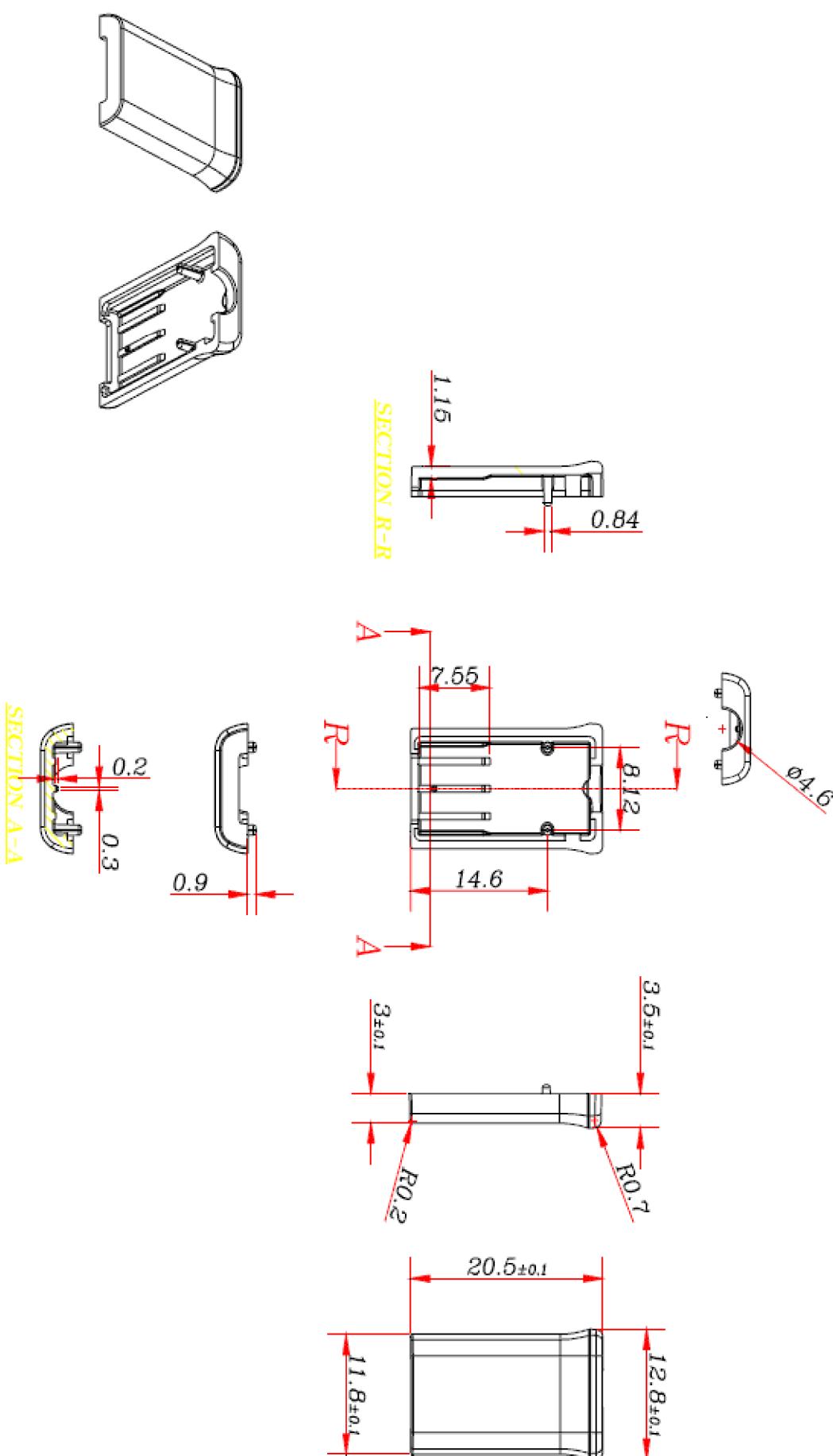
DIMENSIONS: (mm)		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN Moisés Nogueira		APRO Fábio Dantas		DESCRIPTION	
0 PIC	± 2MM								
1 PIC	± 2MM								
2 PIC	± 2T2								
3 PIC	± 2T3								
4 PIC	± 2T4								
NOT ANGLES±	NOT SURFACE TEXTURE	SCALE N/S	SIZE A4	SHEET 1P/28	MANUFACTURER ANTENK	PART NUMBER 03D1.0UA1.246F-1	REVISION 00		

A

D

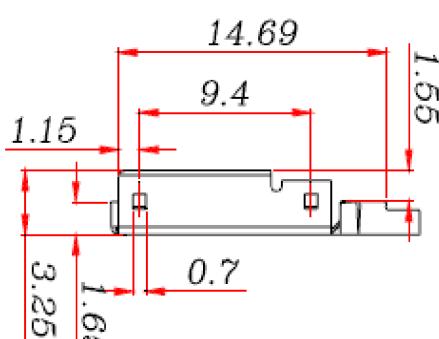
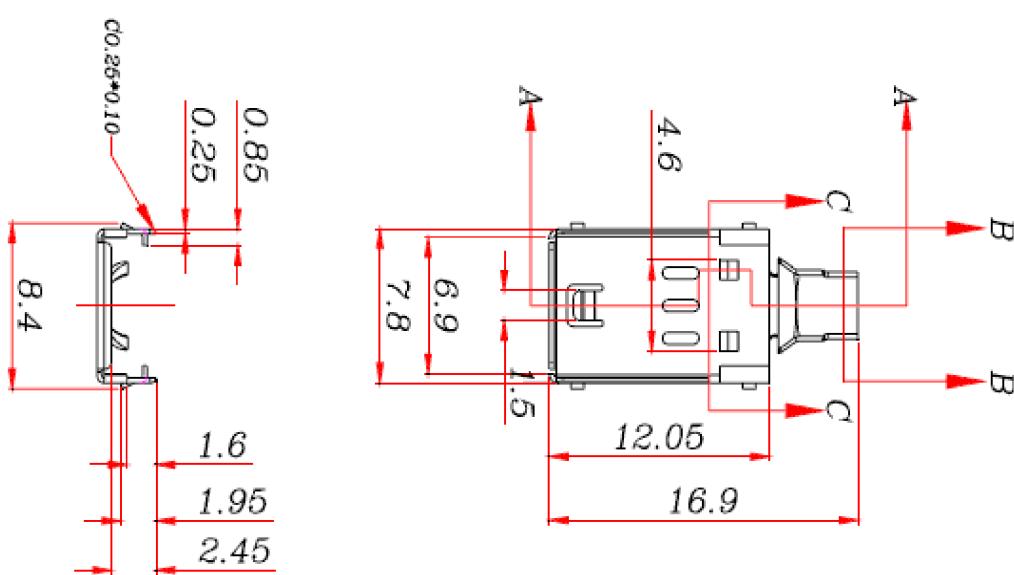


11- MICRO CASE LOWER





12- MICRO SHIELD COVER LOWER

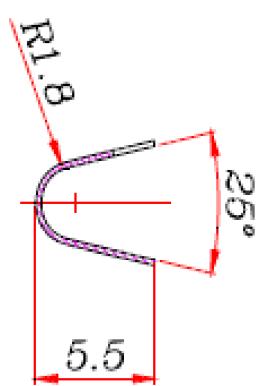
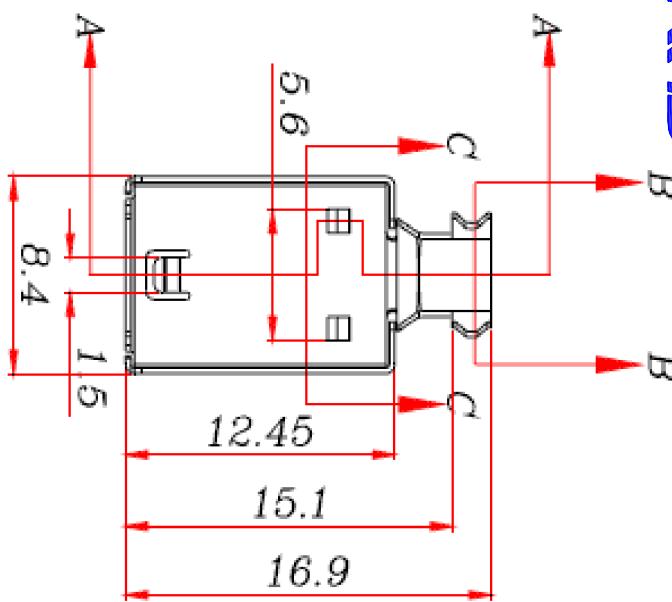
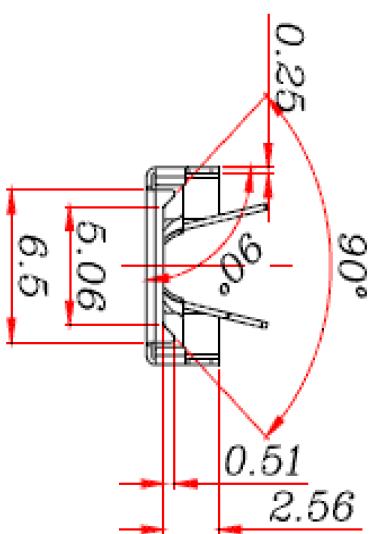


SECTION A-A

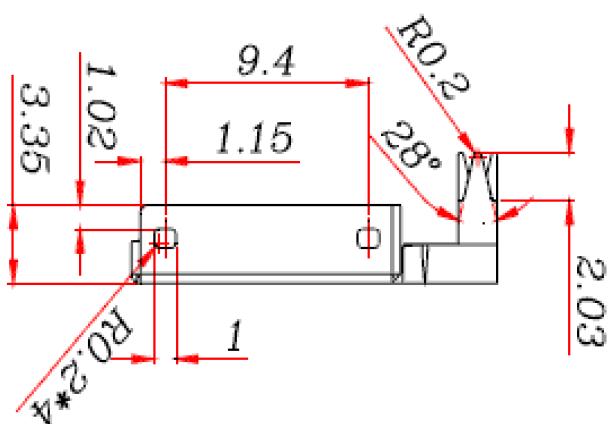
DIMENSIONS: (mm)		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DIN Moisés Nogueira		GK&B PRODUÇÕES INDUSTRIAS DA AMAZÔNIA LTDA Manaus, Brazil.
		0 PIC	± ZMM	1 PIC	± ZMA	
1	PLC	± ZMA				Fábio Dantas
2	PLC	± ZT2				
3	PLC	± ZT3				
4	PLC	± ZT4				
ANGLES±		DESCRIPTION				
NOT SURFACE TEXTURE		MICRO USB LOWER SHIELD (BLINDAGEM BOTTOM) TO 01578				
SCALE	SIZE	SHEET OF	MANUFACTURER	ANTENK	PART NUMBER	REVISION
N/S	A4	13 28			03D1.0UCO.589F-1	00



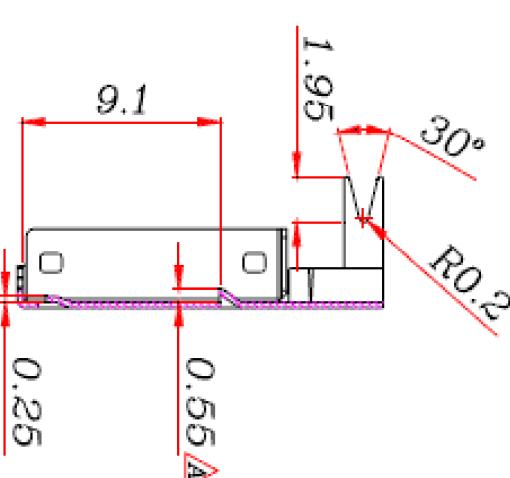
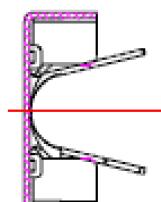
13- MICRO SHIELD COVER UPEER



SECTION B-B



SECTION C-C



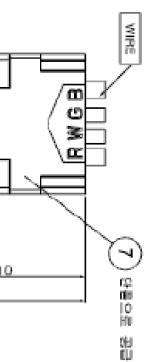
DIMENSIONS: (mm)		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN Moisés Nogueira		APRO Fábio Dantas		DESCRIPTION	
NOT ANGLE±	NOT SURFACE TEXTURE	NOT SCALE N/S	SIZE A4	SHEET 14F/28	MANUFACTURER ANTENK	PART NUMBER 03D.0UC0.588F-1	REVISION 00	MICRO USB UPPER SHIELD (BLINDAGEM TOP) TO 01578	
0 PIC	± 2MM							Manaus, Brazil	
1 PIC	± 2MM								
2 PIC	± 2T2								
3 PIC	± 2T3								
4 PIC									

A

D



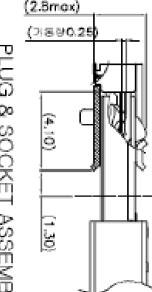
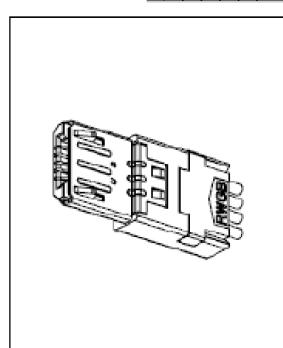
14- MICRO USB PLUG



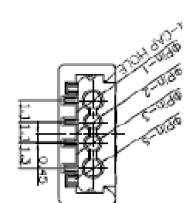
7 단을으로 공급

MODEL	CAP PART NO.	NOTE SIZE(CORNER & SIDE) Cap COLOR
SC9301-A	SC9301-A-94-3	Pin-1 0.93 0.73 0.73 0.95 BLACK
SC9301-B	SC9301-B-94-3	Pin-2 1.13 0.73 0.73 0.95 GREEN
SC9301-C	SC9301-C-94-3	Pin-3 0.93 0.63 0.63 1.16 VIOLET
SC9301-D	SC9301-D-94-3	0.93 0.93 0.53 0.95 BROWN
SC9301-E	SC9301-E-94-3	0.95 0.73 0.73 0.95 GREEN
SC9301-F	SC9301-F-94-3	0.95 0.73 0.73 0.95 RED
SC9301-G	SC9301-G-94-3	0.95 0.73 0.73 0.95 RED

CAP SPEC



PLUG & SOCKET ASSEMBLY



* NOTE

1. PLATING

1. Voltage Rating : 30VAC/DC

2. Current Rating :

* Contact Currents Only (2 and 3, 4)

* With Power Applied (Pin 1 and 5)

* 1.6 A, Pin No. 1 and 5,

3. Material (Pin 1 and 5),

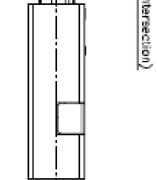
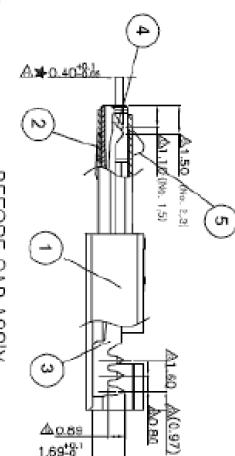
4. Durability (10,000 cycles)

5. Up-Holding Force (Post Test) : 0.8~2.5kgf (2~25N)

6. Matting Force (Pre Test) : 0.3~2.5kgf (2~25N)

7. General Tolerance : ±0.1

BEFORE CAP ASSY



* Specifications

1. Voltage Rating

30VAC/DC

2. Current Rating

1.6 A

1.6 A, Pin No. 1 and 5,

3. Material (Pin 1 and 5),

4. Durability (10,000 cycles)

5. Up-Holding Force (Post Test) : 0.8~2.5kgf (2~25N)

6. Matting Force (Pre Test) : 0.3~2.5kgf (2~25N)

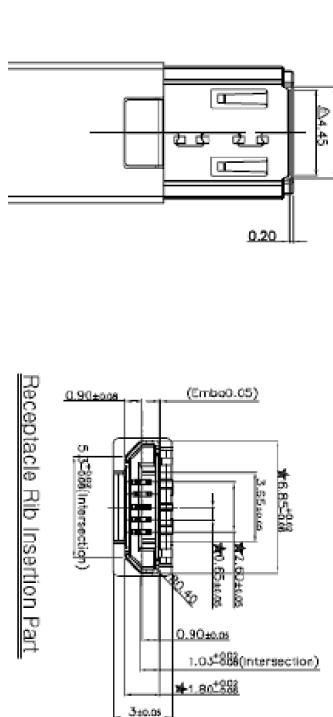
7. General Tolerance : ±0.1

8. Dimensions

9. Tolerances

10. Notes

11. Remarks



Replaceable Rib Insertion Part

DIMENSIONS: (mm)	TOLERANCES UNLESS OTHERWISE SPECIFIED:	MM Moisés Nogueira	APD Fábio Dantas	DESCRIPTION
0 PIC	± 2MM			
1 PIC	± 2MM			
2 PIC	± 2MM			
3 PIC	± 2MM			
4 PIC	± 2MM			

MICRO USB CONNECTOR TO 01578 E 01550

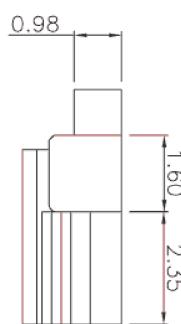
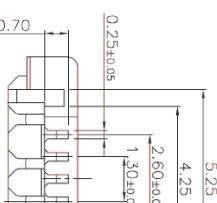
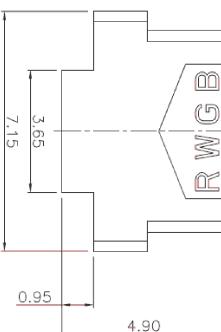
PART NUMBER
03D.0UGO.182D-1

REVISION
00



15- CAP GREEN TO MICRO

MODEL	CAP PART NO.	HOLE SIZE(+0.05/-0.03)▲	CAP COLOR
5V/1A DLC	SC93017-0413	0.88	0.73
M0 DLC	SC93018-0413	1.13	0.73
지기 DLC	SC93019-0413	0.93	0.93
▲대만향 DLC	SC93020-0413	0.98	0.93
▲3.3pi DLC	SC93024-0413	0.98	0.73
▲3.6pi DLC	SC93030-0413	0.93	0.98
▲1352A DLC	SC93038-0413	0.73	0.73



DIMENSIONS: (mm)		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN Moisés Nogueira APRO Fábio Dantas	DESCRIPTION	CAP GREEN TO MICRO USB 01578	REVISION 00
ANGLES±	NOT SURFACE TEXTURE	SCALE N/S	SIZE A4				
0 PIC	± 2MM						
1 PIC	± 2MM						
2 PIC	± 2T2						
3 PIC	± 2T3						
4 PIC	± 2T4						

A

D



16- USB A TYPE CONNECTOR

CUS06ZE USB A TYPE IDC CONNECTOR

REV	DESCRIPTION	DATE	ECN NO.	CHANGE
A	MEV	2013.20	ZJAM	

PIN CODING

BUSB2AMPO0 □ □ □

1

- 1 USB A TYPE (IDC)CONNECTOR
SHELL(0.30)

- 2 TERMINATOR ELECTROPLATING

- A: BRASS

- Contact Area Au 0.8u Min Over Ni 30u

- Min Lead Area Ni 30u Min(72H)

- 3 HOUSING COLOR

- B : BLACK

- W : WHITE

- 4 COVER COLOR:FORM NO.1

- No. 1

- Cover Color

- Aperture Ø PIN 1.4

- Aperture Ø PIN 2.3

- CODE NO

- GH139-1411C

- 1 WHITE

- 0.9*2

- 0.9*2

- GH139-1352A

- 2 VIOLET

- 0.9*2

- 0.9*2

- GH139-1352A

- 3 GREEN

- 0.9*2

- 0.7*2

- GH139-1354B/1354A

- 4 BLACK

- 0.8*2

- 0.7*2

- GH139-1405A/1405B

- 5 BROWN

- 0.9*2

- 0.9*2

- GH139-XXXXXX

- 6 GRAY

- 1.13*0.88

- 0.7*2

- GH139-1540A

- 7

- 11.30

- 3.50±0.05

- 1.00±0.05

- 8.65±0.70

- 3.70±0.10

- 1.85±0.10

- 4.97±0.30

- 19.00

- TERMINAL

- COVER

- HOUSING

- NOMI

- 4 COVER COLOR:FORM NO.1

- No. 1

- Cover Color

- Aperture Ø PIN 1.4

- Aperture Ø PIN 2.3

- CODE NO

- GH139-1411C

- 1 WHITE

- 0.9*2

- 0.9*2

- GH139-1352A

- 2 VIOLET

- 0.9*2

- 0.9*2

- GH139-1352A

- 3 GREEN

- 0.9*2

- 0.7*2

- GH139-1354B/1354A

- 4 BLACK

- 0.8*2

- 0.7*2

- GH139-1405A/1405B

- 5 BROWN

- 0.9*2

- 0.9*2

- GH139-XXXXXX

- 6 GRAY

- 1.13*0.88

- 0.7*2

- GH139-1540A

- 7

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- Model Plating Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±0.20

- Gold plated Test Points

- 11.65

- 5.05(Nickel Plating Area)

- 3.30±0.20

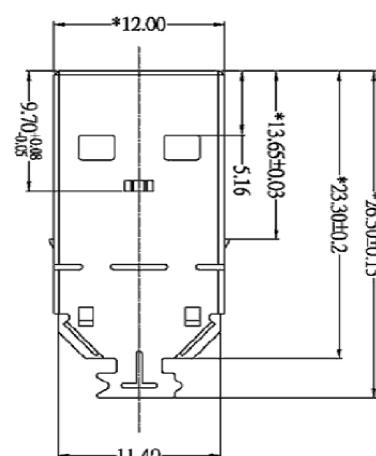
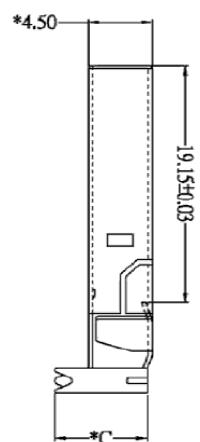
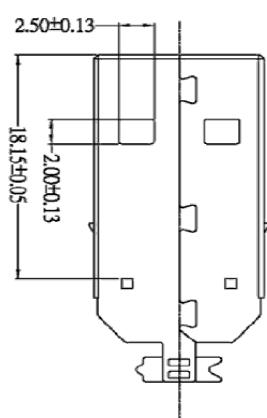
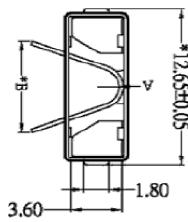
- Gold plated Test Points

- 7.20(Gold plated Area)

- 5.30±



17- USB SHIELD SHELL



A	B±0.35	C±0.35
OD3.0	6.00	5.20
OD4.0	6.00	6.50

REV	EDISON	AWPD
A	REL	

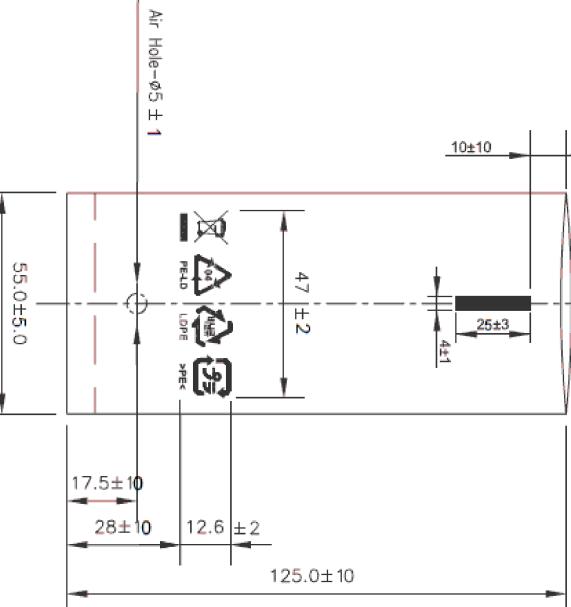
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN BY: Moisés Nogueira APD Fábio Dantas	CHECKED BY: Manaus, Brazil
ANGLE±	NOT	SCALE	SIZE		
	NOT ✓	N/S	A4	18f/28	
				DESCRIPTION	USB SHIELD SHELL (BLINDAGEM) UCO0587D
				MANUFACTURER	PART NUMBER 03D1.0UCO.587F-1
					REVISION 00

A

D



18-PE BAG



NOTES:

1. PE Bag should not be damaged and dirtied after packing
2. Material thickness: 0.05mm
3. Transparency: 95%
4. Printing color: Black
5. Each environment mark must fulfill with minimum size of: 7*10mm
- 6) WEEE Symbol Mark minimum size(10*10mm)

2) Other Symbol Mark minimum size(10*10mm)



6. Material must fulfill GWI 4-11.

7. Visual inspection according to III-INS-Q00030-30.

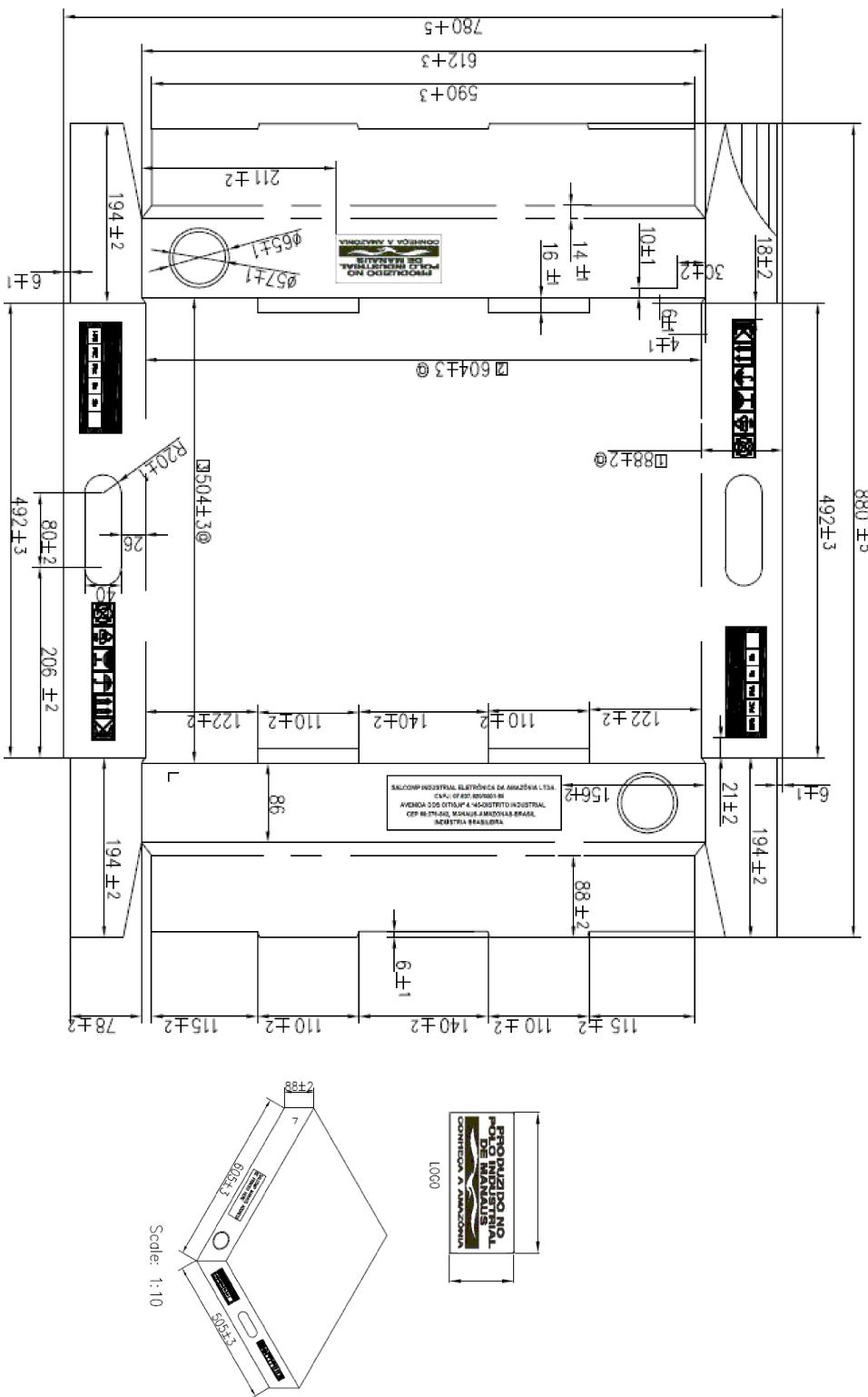
DIMENSIONS: (mm)		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN Moisés Nogueira APD Fábio Dantas	COMPOENTES DA AMAZÔNIA LTDA Manaus, Brazil
ANGLES±	NOT SHEET	SCALE N/S	SIZE A4		
NOT SURFACE TEXTURE	NOT ✓	19f/28	MANUFACTURER PLASMAN	PART NUMBER 0414.1255.500F-0	REVISION 00
NOT ANGLE±	NOT ✓	19f/28	MANUFACTURER PLASMAN	PART NUMBER 0414.1255.500F-0	REVISION 00

A

D



19-COVER BOX TOP



→ No

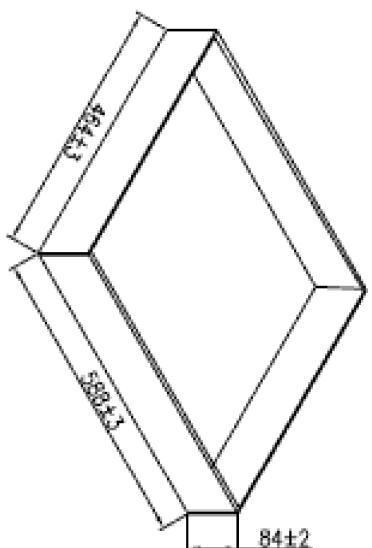
- Material:
Corrugated Board (Brown)
Single wall (B Wall):
Facing paper: B 160g
Flute : 120g
Liner paper: B 160g
 - Test requirements:
Compressing strength: 1000KG
Bursting strength:100Kpa
ECT 3 kN/m or more
 - Material color:Black
 - Material must fulfill RoHS requirement
and fulfill Br free(Total Br<900ppm)

DIMENSIONS: (mm)		TOLERANCES UNLESS SPECIFIED:		DIN Moisés Nogueira	 GK&B INDUSTRIAL DO AMAZÔNIA LTDA	Manaus, Brazil		
		0 PLIC	± 2MM	APD				
		1 PLIC	± 2MA	Fábio Dantas				
		2 PLIC	± 2T2					
		3 PLIC	± 2T3					
		4 PLIC	± 2T4					
ANGLES:±	NOT SURFACE	NOT TEXTURE	SCALE N/S	SIZE A4	SHEET 20 ^F 28	P/N CUSTOMER NORTEPACK	PART NUMBER 0530.6055.058F-0	REVISION 00
DESCRIPTION BOX DATA CABLE COVER TOP 605X505X88MM								

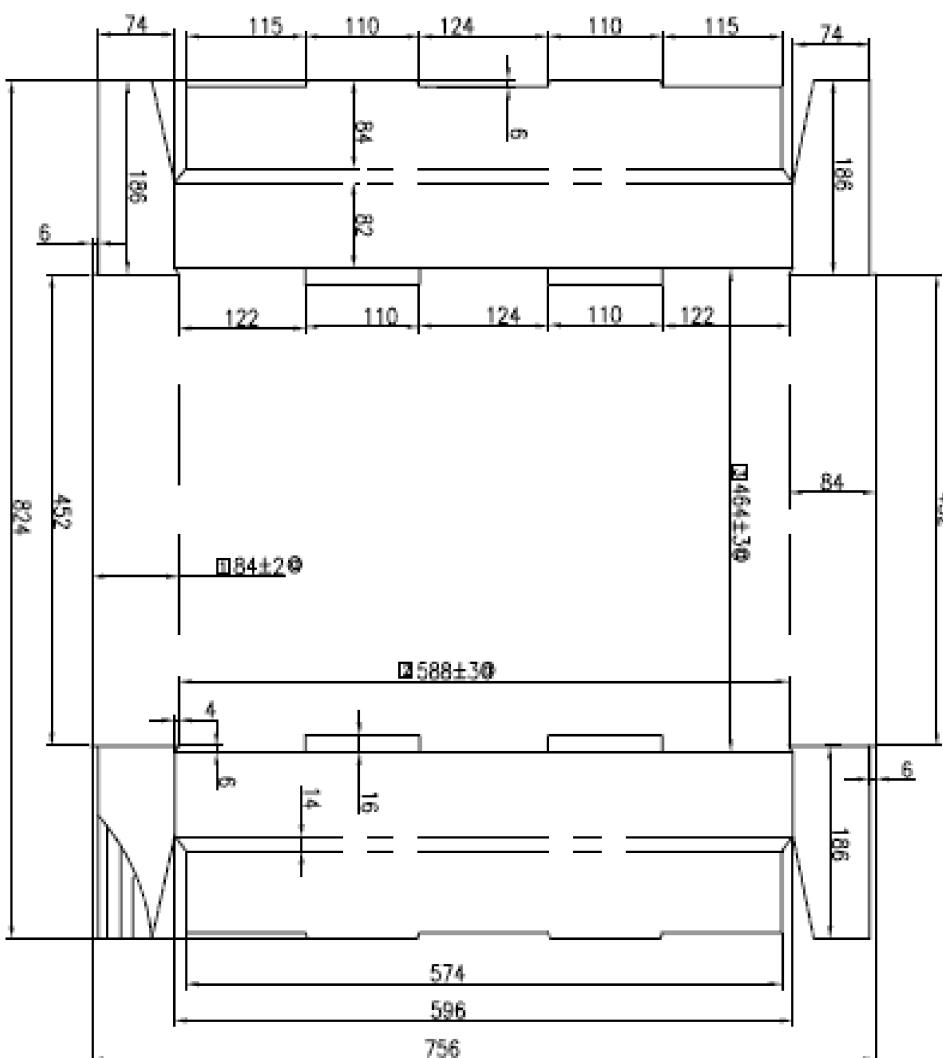


20-COVER BOX BOTTOM

Scale: 1:10



DIMENSIONS: (mm)	TOLERANCES UNLESS OTHERWISE SPECIFIED:		DIN Moisés Nogueira APD	Fábio Dantas	 GK&B INDUSTRIAS AMAZONIA LTD. Brazil
	0 PLIC	± 2MM			
1 PLIC	± 2MM				
2 PLIC	± 212				
3 PLIC	± 273				
4 PLIC	± 274				
ANGLES: ±	NOT	SCALE	SIZE	DESCRIPTION	BOX DATA CABLE COVER BOTTOM 588X464X84MM
SURFACE TEXTURE:	NOT ✓	N/S	A4	MANUFACTURER	PART NUMBER
			21 ^{PF} 28	NORTEPACK	0530.5884.648F-0
					REVISION
					00



Notes:

1. Material:

- | | |
|----------------------------|--------|
| Corrugated Board (Brown) | |
| Double walls (B+C Walls) : | |
| Facing paper: B | 160g |
| Flute | : 120g |
| Liner paper: C | 120g |
| Flute | :120g |
| Liner paper: B | 160g |

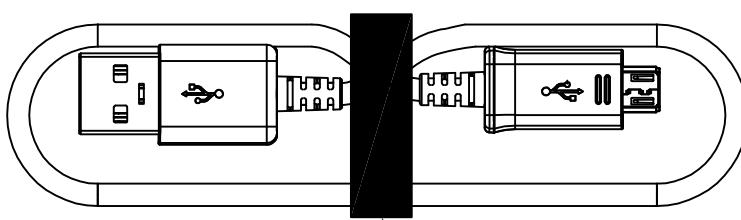
TOOLING No.

PN: -

THIS INFORMATION IS CONFIDENTIAL AND PROPRIETARY TO
GK&B INDUSTRIA DE COMPONENTES DA AMAZONIA LTDA
SUBSIDIARIES AND AFFILIATES. IT MAY NOT BE DISCLOSED
TO ANYONE, OTHER THAN GK&B PERSONNEL,
WITHOUT WRITTEN AUTHORIZATION FROM GK&B
MANAUS, AMAZONAS, BRAZIL.



21-RUBBER BINDER



NOTE

- Hardness: 45~55H_{RC}, Tensile strength: 18Mpa, Tear strength: 47kN/m, Elongation: 490%, Perpetual change of shape: 20%, VULCANIZATION: 50~55min, Deformation is acceptable.

SECTION A-A

Technical drawing of a cylindrical component A. The top view shows a rectangular base with a central hole of diameter $11,4 \pm 0,5$ mm. The height of the base is $1 \pm 0,1$ mm. The total height of the cylinder is $5 \pm 0,5$ mm. The bottom view shows a circular cross-section.

21 ± 2 for measurement reference

DIMENSIONS: (mm)		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN BY Moisés Nogueira		REV. GKB INDUSTRIA DE MOLDES E AMERICA LTD.	
0	PLC	± 2MM		APD	Fábio Dantas		
1	PLC	± 2MA					
2	PLC	± 2T2					
3	PLC	± 2T3					
4	PLC	± 2T4					
DESCRIPTION		RUBBER	BINDER	UNIVERSAL	PART	ZAO004	
ANGLES ±	NOT	SCALE	SIZE	MANUFACTURER	PART NUMBER		
SURFACE TEXTURE	NOT ✓	N/S	A4	CAI FANG	0402.1000.004F-1	REVISION	00
			22*28				



21- CABLE SPECIFICATION

Cable Specification

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Controlled document on local China Salcomp

1. Environmental Specification

1.1 Storage Temperature / Humidity Range

1.1.1. Storage Temperature : -40°C~+85°C

1.1.2. Storage Humidity : 0%~85%RH

1.2 Low Temperature Storage Test

1.2.1. Condition : -20°C for 96Hrs

1.2.2. Criteria : No mechanical deformation, shrinkage, damage, gap.

1.3 High Temperature Storage Test

1.3.1. Condition : 50°C for 96Hrs

1.3.2. Criteria : No mechanical deformation, shrinkage, damage, gap.

1.4 High Temperature High Humidity Storage Test

1.4.1. Condition : 85°C/85%RH for 96Hrs

1.4.2. Criteria : No mechanical deformation, shrinkage, damage, gap.

1.5 Thermal Shock Test

1.5.1. Condition : -40°C/1Hr and 85°C/1Hr as 1 cycle, total 30 cycles;
Transition time less than 5 minutes; Sample direction : front side, back side, jacket
1.5.2. Criteria : No mechanical deformation, shrinkage, damage, gap.

1.6 Repeated Free Fall Test (50cm/500 drops)

1.6.1. Condition : 0.5m, 500 drops

1.6.2. Criteria : No cover opens after 500 drops.

1.7 UV Test

1.7.1 Condition : Light wave: UVA-340; Radiant Intensity: 0.63w/m²/nm;
Test time: Irradiate in 4h on 60°C and keep in 4h on 50°C,
Total 12 cycles for 96h

1.7.2 Criteria : No yellowing, 1.8 Salt Mist Test

1.8.1 Condition : Spray 5±0.5% NaCl; +35°C; 72h

1.8.2 Criteria : No visual or mechanical damages including corrosion
after the test.

DIMENSIONS: (mm)	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DWN Moisés Nogueira		INDUSTRIA DE COMPONENTES DA AMAZONIA LTDA			Manaus, Brazil
	0 PLC ± ZMI 1 PLC ± ZMA 2 PLC ± ZT2 3 PLC ± ZT3 4 PLC ± ZT4	APVD Fábio Dantas		DESCRIPTION			TYPE B CABLE USB 1,0M WHITE
ANGLES± NOT SURFACE TEXTURE	NOT ✓	SCALE	SIZE	SHEET OF 23 28	PN CUSTOMER	PART NUMBER	REVISION 00
		N/S	A4		10FB.0002.150B-0	10FB.0002.150B-0	



21- CABLE SPECIFICATION

2. Cable(NON PVC) Specification

2.1 Cable

2.1.1. Wire Gauge : AWG 23 (34/0.10TA) + AWG30 (7/0.10TA)

2.1.2. Length : 1000±20mm

2.1.3. Outer Diameter : ?3.3+0.1/0mm

2.1.4. Material : Case: PC; Cable: Non-PVC/Non-P
30 AWG DOW DGDK-3364 Natural

23 AWG YCTPEE 6311 ?T211

2.1.5. Noninflammable Grade : VW-1

2.1.6. Color : White

2.1.7. Weight : 25.85g ± 5%

2.1.8. Cable can meet UL standard

2.1.9. Cable spec. chart : As below

	DIRECTION	DESCRIPTION	SPECIFICATION
	A	JACKET	TPE H/F (WH) O/D:3.3(+0.1,-0)(T:0.55±0.05)
	B	BRAID	0.10TA*4 핫*16EA(COVERING 80%)
	C	TAPPING	AL/MYLAR 10mm
3.3(+0.1,-0) <SECTION A*/A> WIRE NO. 1 2 3 4 COLOR WHT RED GRN BLK JACKET : HAOXIN TPE COMPOUND(HFW2290 8006 FR WH 90A) TSC TPE COMPOUND(HFNT 500DL)	D	CONDUCTOR	7/0.10TA (AWG30)(O/D 0.31±0.02)
		INSULATION	HDPE(WH,GRN)0.70(+0.05/-0)(T:0.195±0.025)
34/0.10TA (AWG23)(O/D 0.67±0.03)	E	CONDUCTOR	34/0.10TA (AWG23)(O/D 0.67±0.03)
		INSULATION	PET(RED,BLK)0.95(+0.05/-0)(T:0.14±0.025)
	F	MARKING	도면참조(음과인쇄) 생산자 표기:한국가장 C102671, 품권기琅,C102671-D

2.2 Cable Assembly Bending (Standard A Plug Side & Micro-USB Plug Side)

2.2.1. Load : 300g

2.2.2. No. of Bending Cycles : 6000 cycles

2.2.3. Bending Angle : ±60°

2.2.4. RPM Standard: : 30 times / minute

2.2.5. Criteria : No damage

DIMENSIONS: (mm)	TOLERANCES UNLESS OTHERWISE SPECIFIED:				Moisés Nogueira APVD Fábio Dantas	INDUSTRIA DE COMPONENTES DA AMAZONIA LTDA	Manaus, Brazil
	0 PLC	± ZMI	1 PLC	± ZMA			
	2 PLC	± ZT2	3 PLC	± ZT3			
	4 PLC	± ZT4					
					DESCRIPTION	TYPE B CABLE USB 1,0M WHITE	
ANGLES± NOT SURFACE TEXTURE	NOT ✓	SCALE N/S	SIZE A4	SHEET OF 24 28	PN CUSTOMER 10FB.0002.150B-0	PART NUMBER 10FB.0002.150B-0	REVISION 00



21- CABLE SPECIFICATION

2.3 Cable Assembly Pull out Force (Standard A Plug Side & Micro-USB Plug Side)

2.3.1. Load / Duration : 10kg / 1 minute

2.3.2. Criteria : No Damage

2.4 USB Cover & 1/F 30P Cover Separation Force Test

2.4.1. Load : max force push

2.4.2. Criteria : Max separation force shall be greater than 10kgf for USB cover and 3kgf for 1/F 30P cover.

2.5 Adhesive Strength

2.5.1. Method : Degrease the surface prior to the test (Use soap solution or isopropanol). Stick adhesive tape onto the printing and press firmly. Within 1 min of applying the adhesive tape, remove tape at a speed of 20 cm/s – 30cm/s and angle of 30° +/– 10°

2.5.2. Criteria : No Parts of the printing may come off during this test

2.6 Pencil Eraser Abrasion Resistance Test

2.6.1. Method : Pencil eraser abrade on the silk print, weight 500g, 40 Cycles /minute, 300 cycles as recommended.

2.6.2. Criteria : The silk print shall not be come off

2.7 Alcohol Resistance Test

2.7.1. Method : Pencil eraser abrade on the silk print, weight 500g, 40 Cycles /minute, 99.3% alcohol is applied on the silk print, 1ml/50 cycles, the pencil eraser shall be without alcohol (keep the eraser rigid), 200 cycles in all

2.7.2. Criteria : The silk print shall not be come off

2.8 Water and Petroleum Spirit Resistance Test

2.8.1. Method : Compliance is checked by inspection and by rubbing the marking by hand for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with petroleum spirit.

2.8.2. Criteria : The marking shall be legible, it shall not be possible to remove marking plates easily and they shall show no curling.

2.9 Electrical Strength

2.9.1. Condition : 350Vac / 1 minute

2.9.2. Criteria : No spark, burn and the cut off current 1mA under

2.10 Insulation Resistance

2.10.1. Condition : 500Vdc / 1 minute

2.10.2. Criteria : The insulation resistance should not be less than 500MΩ.

DIMENSIONS: (mm)		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DWN Moisés Nogueira					
		0 PLC ± ZMI		APVD Fábio Dantas					
		1 PLC ± ZMA							
		2 PLC ± ZT2							
		3 PLC ± ZT3							
		4 PLC ± ZT4							
ANGLES± NOT SURFACE TEXTURE		NOT ✓		SCALE N/S		SHEET OF 25 28	PN CUSTOMER 10FB.0002.150B-0	PART NUMBER 10FB.0002.150B-0	REVISION 00

GK&B INDUSTRIA DE
COMPONENTES DA
AMAZONIA LTDA

Manaus,
Brazil

2.11 Contact Resistance

Contact resistance shall be less than 50mΩ under maximum voltage 6Vdc / Current 10mA.

2.12 Impedance

Resistance range is 90Ω±10%

2.13 Voltage Drop

According to USB2.0 standard, when applied 5V/500mA current:
The maximum voltage drop between the A-series plug and B-series plug on VBUS is 125 mV.

The maximum voltage drop between upstream and downstream on GND is 125 mV.

The additional requirement for voltage drop:

The maximum voltage drop shall be less than 0.16V when applied 5V/500mA current to Vbus and GND during and after cable bending up and down at an angle of 90°.

2.14 USB 2.0

2.14.1 Highspeed (480Mbps)

2.14.2 Eyediagram (Far end)

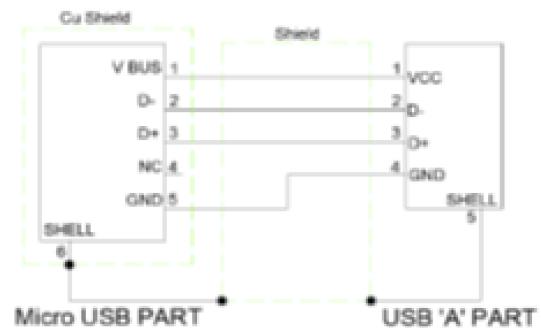
2.15 I/F plug

Types : Micro USB

-측정 POINT-

- ① I/F CONN #1 ~ **cable** D+,D-,GND
- ② I/F CONN #2 ~ **cable** VCC,D+,GND
- ③ I/F CONN #3 ~ **cable** VCC,D-,GND
- ④ I/F CONN #5 ~ **cable** VCC,D+,D-

MicroUSB	USB CONN.	REMARK
1	V+	
2	D-	
3	D+	
4	NC	
5	GND	



2.17 DCR Value

VBUS 74.5m OHM, Braid 45m OHM, at ?T20

2.18 Cable withstandng current

For AWG23 3.0A at ?T30

2.19 Cable marking

N/A

DIMENSIONS: (mm)	TOLERANCES UNLESS OTHERWISE SPECIFIED:				Moisés Nogueira APVD Fábio Dantas	INDUSTRIA DE COMPONENTES DA AMAZONIA LTDA	Manaus, Brazil
	0 PLC	± ZM1	1 PLC	± ZMA			
	2 PLC	± ZT2	3 PLC	± ZT3			
	4 PLC	± ZT4					
					DESCRIPTION	TYPE B CABLE USB 1,0M WHITE	
ANGLES ± NOT SURFACE TEXTURE	NOT ✓	SCALE N/S	SIZE A4	Sheet of 26/28	PN CUSTOMER 10FB.0002.150B-0	PART NUMBER 10FB.0002.150B-0	REVISION 00



21- CABLE SPECIFICATION

3 Material Environmental Requirement

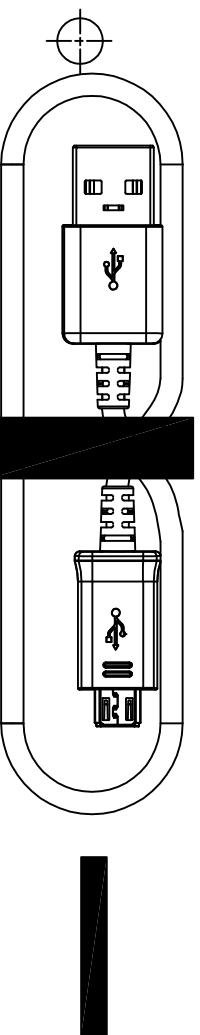
	Regulation Material	TEST ITEM	MANUFACTURE	Parts(N)		Packing Material(P)
				ORGANIC	INORGANIC	ICP/AAS XRF
RoHS 6 material	Heavy Metal	Cadmium(Cd)	ICP/AAS	5	80	
			XRF	50	70	
		Lead(Pb)	ICP/AAS	100	800	
			XRF	200	700	
		Mercury(Hg)	ICP/AAS	800	800	
			XRF	700	700	
		Hexavalent(Cr6+)	IC/UV-vls	800	800	
			SPOT-TEST	Surface treatment prohibition		
		Chromium	Gun chrome	ICP/AAS	800	800
				XRF	700	700
		PBBs, PBDEs	XRF	900	-	900
	HF	Br	XRF	900	-	900
		Cl	XRF	900	-	900
Antimony-Free		Sb	XRF	700		700

DIMENSIONS: (mm)	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DWN Moisés Nogueira		INDUSTRIA DE COMPONENTES DA AMAZONIA LTDA			Manaus, Brazil
	0 PLC ± ZMI 1 PLC ± ZMA 2 PLC ± ZT2 3 PLC ± ZT3 4 PLC ± ZT4	APVD Fábio Dantas					
DESCRIPTION							
ANGLES± NOT SURFACE TEXTURE		NOT ✓	SCALE	SIZE	Sheet of 27/28	PN CUSTOMER	PART NUMBER
NOT ✓		N/S	A4	27/28	10FB.0002.150B-0	10FB.0002.150B-0	REVISION 00

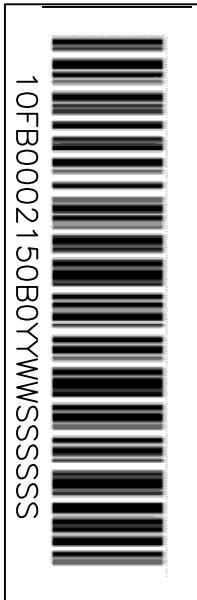


22- EMBALAGEM DATA CABLE - SACO PLASTICO / ETIQUETA

5.1- Saco Plástico p/ embalagem Individual (55X125MM)



5.2 - BAR Code Label



Will be used CODE ASUS (Based in ASUS Registered Code).

10FB0002150BO – GK&B CÓD.
YY – Year (17, 18...).
WW – Week of Production
SSSSSS – SERIAL DE PRODUÇÃO



TOOLING No.

PN: -

60 ± 5

*

A

NOT
NOT
NOT
NOT

8
7
6
5
4
3
2
1

D

10FB0002150BOYYWWSSSSSS	10FB0002150BOYYWWSSSSSS
- Obs.: Etiqueta Impressa na GK&B.	15 ± 5

DIMENSIONS: (mm)	TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN Moisés Nogueira APRO Fábio Dantas	DESCRIPTION ETIQUETA AUTO ADESIVA BOPP FOSCO BR 60X15MM LMP
	0 1 PIC	± 2MM ± 2MA		
2 PIC	± 2T2			
3 PIC	± 2T3			
4 PIC	± 2T4			

ANGLES ±	NOT NOT NOT NOT	SCALE N/S	SIZE A4	SHEET 28/28	MANUFACTURE STICKER	PART NUMBER 0414.0060.015F-0	REVISION 00
SURFACE TEXTURE							