SPECIFICATION

承 認 願

CUSTOMER	
DESCRIPTION	**FLEXIBLE FLAT CABLE**
SPECIFICATION	**30N × 100㎜ * 1.0p * P7**
P / N	**UL2896-1.0-30*100-C**
DATE	**2009/10/28**

PREPARED BY : _____

APPROVED BY : _____

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1. SCOPE

THIS IS THE GENERAL SPECIFICATION COVERING THE CONSTRUCTION SIZE AND PROPERTIES OF THE FLEXIBLE FLAT CABLE UNDER THE RULES AND CONDITIONS OF UL FOLLOW-UP SERVICE **(File NO. E208946)**

2. UL GRADE

UL	2896	20624	20696	20861
RATING	80℃,30V,VW-1 ■	80℃,60V,VW-1 □	80℃,30V,VW-1 □	105℃,60V,VW-1 □

3. Type and symbol

Type

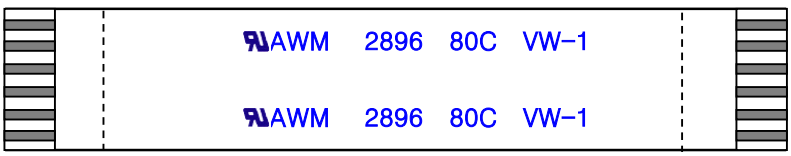
Ex) UL2896 - 12N × 50㎜ * 0.5P * (3 / 3 , 5 / 5)*(0.05*0.32)*P7

① - ② × ③ * ④ * (⑤/⑥,⑦/⑧)*(⑨)*⑩

① UL AWM Style No.
② No. of conductor
③ Cable length
④ Conductor pitch(mm)
⑤ S1(Conductor strip length)
⑥ S2(Conductor strip length)
⑦ S3(Protector length)
⑧ S4(Protector length)
⑨ Conductor size
⑩ Terminal type

Symbol

Ex)



4. RAW MATERIALS

1) INSULATORS

Structure	PET/PET			PET/PVC	
Thickness	37㎛ ☐	43㎛ ☐	60㎛ ■	80㎛ ☐	92㎛ ☐
Color	White ■	Black ☐		White	

2) CONDUCTORS

Material	Tin Coated Annealed Copper				
Conductor Size	0.1×1.27 ☐	0.1×0.8 ☐	0.1×0.65 ☐	0.1×0.5 ☐	0.05×0.32 ☐
Conductor Resistance(/m)	0.17 Ω ↓	0.27 Ω ↓	0.35 Ω ↓	0.42 Ω ↓	1.40 Ω ↓

Material	Tin Coated Annealed Copper				
Conductor Size	0.05×0.8 ☐	0.05×0.65 ■	0.035×0.65 ☐	0.05×0.5 ☐	0.035×0.32 ☐
Conductor Resistance(/m)	0.53 Ω ↓	0.63 Ω ↓	0.96 Ω ↓	0.88 Ω ↓	1.80 Ω ↓

3) SUPPORTING TAPE

Thickness	160㎛ ☐	223㎛ ■	285㎛ ☐
Color	White ☐	Blue ■	

4) EMI SHEILD

Structure	ALUMINUM	AL-PET	FABRIC
	☐	☐	☐

5. PROPERTIES

ITEM		CHARACTERISTICS
Electrical Properties	Conductor Resistance	See below Table
	Insulation Resistance (DC500V)	More than 100MΩ
	Dielectoric Strength between conductor (AC 500 V/1min)	No breakdown
Physical and chemical Properties	Operating Temp	-30℃ ~ 80℃
	Heat Resistance	85℃ × 95 Hrs
	Heat Cycle Test	-40℃→+25℃→+85℃→+25℃ (12Hrs×2cycle)
	Moisture Resistance	40℃,95%RH×96Hrs
	Flame Resistance (UL Sub. 758)	VW - 1 PASS
	Flexing Test	180° Folding Test (More than 20times)
Mechanical Properties	Elongation of Insulation	More than 60%
	Abrasion Test	0.5mmφ,600g,60cycle/min
		(More than 10,000times)
	Pull-out Test	More than 20times

6. PACKING AND MARKING

Finished products shall be packed and it shall be packed them not to be damaged during the transportation.

And the following shall be marked at the well-visible place of the packing.

1) CUSTOMER
2) PART No.
3) DESCRIPTION
4) Q' TY
5) DATE

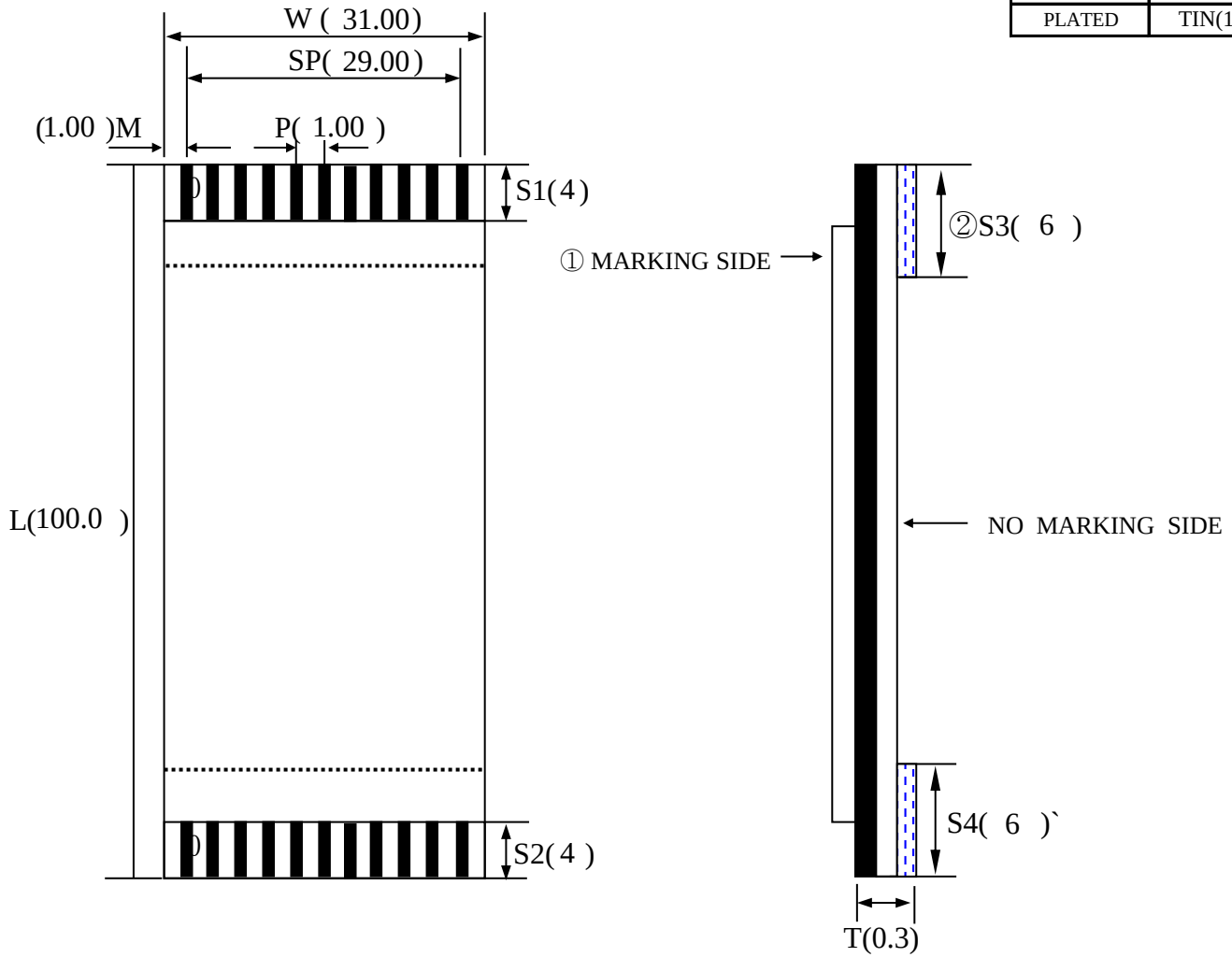
7. PACKING BOX SIZE

IN BOX : W x L x H : 360 X 210 X 55mm

OUT BOX : W x L x H : 360 X 210 X 220mm

UL2896 - 30N × 100㎜ * 1.0p * (4/4 , 6/6) * (0.05*0.65) * P7

CONDUCTOR			NO	ITEM NAME	SPECIFICATION	REMARK
	규격	공차	①	INSULATION	UL2896	60
THICKNESS	0.05	± 0.01	②	P/TAPE	ST 220	12
WIDTH	0.65	± 0.03	③	SHIELD	NO	NO
PLATED	TIN(1u)	MIN	④	TAPE	NO	NO



Deacription	Abbr	Dimen	Tol
PITCH	P	1.00	± 0.1
SPAN	SP	29.00	± 0.1
WIDTH	W	31.00	± 0.1
MARGIN	M	1.00	± 0.1
CABLE LENGTH	L	100.0	± 2.0
STRIP LENGTH	S1	4	± 1.0
	S2	4	± 1.0
PROTECTOR LENGTH	S3	6	± 2.0
	S4	6	± 2.0
CABLE THICK	T	0.3	±0.05
PIN No.	N	30	-
SHIELD LENGTH	SL	NO	-

NOTES

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* 위 그림과 제품과는 차이가 있을 수 있음.
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REV	DATE	REVISION DESCRIPTION		PATN	DIM	SIZE	DRWG NO
				7	MM	A4	
				DRWG	CHECK	APRV	CODE NO
				PASS	PASS	PASS	IF1040C7
							작성일
			APR	/	/	/	작성자