

SPECIFICATION

承認願

CUSTOMER	
DESCRIPTION	FLEXIBLE FLAT CABLE
SPECIFICATION	10N*100mm*0.5p*P7
P / N	AI10100A7
DATE	

PREPARED BY : _____

APPROVED BY : _____



KORA TECH CO., LTD.

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 × 50mm * 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)

	KORA  AWM 2896 80C VW-1	
	KORA  AWM 2896 80C VW-1	

4. RAW MATERIALS

1) INSULATORS

Structure	PET/PET			PET/PVC	
Thickness	37 μm <input type="checkbox"/>	43 μm <input type="checkbox"/>	60 μm <input checked="" type="checkbox"/>	80 μm <input type="checkbox"/>	92 μm <input type="checkbox"/>
Color	White <input checked="" type="checkbox"/>	Black <input type="checkbox"/>		White	

2) CONDUCTORS

Material	Tin Coated Annealed Copper				
Conductor Size	0.1×1.27 <input type="checkbox"/>	0.1×0.8 <input type="checkbox"/>	0.1×0.65 <input type="checkbox"/>	0.1×0.5 <input type="checkbox"/>	0.05×0.32 <input checked="" type="checkbox"/>
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 <input type="checkbox"/>	0.05×0.65 <input type="checkbox"/>	0.035×0.65 <input type="checkbox"/>	0.05×0.5 <input type="checkbox"/>	0.035×0.32 <input type="checkbox"/>
Conductor Resistance(/m)	0.53 Ω ↓	0.63 Ω ↓	0.96 Ω ↓	0.88 Ω ↓	1.80 Ω ↓

3) SUPPORTING TAPE

Thickness	160 μm <input type="checkbox"/>	223 μm <input checked="" type="checkbox"/>	285 μm <input type="checkbox"/>
Color	White <input type="checkbox"/>		Blue <input checked="" type="checkbox"/>

4) EMI SHEILD

Structure	ALUMINUM <input type="checkbox"/>	AL-PET <input type="checkbox"/>	FABRIC <input type="checkbox"/>
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5. PROPERTIES

ITEM		CHARACTERISTICS
Electrical Properties	Conductor Resistance	See below Table
	Insulation Resistance (DC500V)	More than 100MΩ
	Dielectric 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

아이텍	UL2896 - 10N × 100mm * 0.5p * (4/4 , 8/8) * (0.05*0.32) * P7			CONDUCTOR			NO	ITEM NAME	SPECIFICATION	REMARK	
					규격	공차	①	INSULATION	UL2896	60	μm
				THICKNESS	0.05	± 0.01	②	P/TAPE	ST 220	16	mm
				WIDTH	0.32	± 0.03	③	SHIELD	NO	NO	mm
				PLATED	TIN(1u)	MIN	④	TAPE	NO	NO	mm

Top view diagram of the cable showing dimensions: W (5.50), SP(4.50), P(0.50), M (0.50), S1(4), S2(4), and L(100.0).

Side view diagram of the cable showing dimensions: S3(8), S4(8), and T(0.3). It also indicates "MARKING SIDE" and "NO MARKING SIDE".

Deacription	Abbr	n	Tol
PITCH	P	0.50	± 0.05
SPAN	SP	4.50	± 0.2
WIDTH	W	5.50	± 0.2
MARGIN	M	0.50	± 0.2
CABLE LENGTH	L	100.0	± 2.0
STRIP LENGTH	S1	4	± 1.0
	S2	4	± 1.0
PROTECTOR LENGTH	S3	8	± 2.0
	S4	8	± 2.0
CABLE THICK	T	0.3	±0.05
PIN No.	N	10	-
SHIELD LENGTH	SL	NO	-

NOTES

* 위 그림과 제품과는 차이가 있을 수 있음.

REV

DATE

REVISION DESCRIPTION

PATN

DIM

SIZE

DRWG NO

				7	MM	A4		
				DRWG	CHECK	APRV	CODE NO	SHT
							AI10100A7	1/1
				PASS	PASS	PASS	작성일	2006. 09. 26
			APR	/	/	/	작성자	Um Ji Eun