

# 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	NO	20624	20696	2643
RATING	80℃,30V,VW-1 ■	105℃,60V,VW-1 □	80℃,60V,VW-1 □	80℃,30V,VW-1 □	105℃,300V,VW-1 □

 \* All is ROHS, ROHS2, REACH compliant. Halogen Free is optional.

# 3. Type and symbol

## Type

UL20861(NO) - 16N × 100mm \* 1.0P \* (5/5 , 10/10)\*(0.035\*0.65)\*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	

Or, according to the customer's requirement if any.

4. RAW MATERIALS

1) INSULATORS

Structure	PET/PET				
Thickness	37 $\mu$ m <input type="checkbox"/>	43 $\mu$ m <input type="checkbox"/>	60 $\mu$ m <input checked="" type="checkbox"/>	80 $\mu$ m <input type="checkbox"/>	92 $\mu$ m <input type="checkbox"/>
Color	White <input checked="" type="checkbox"/>		Black <input type="checkbox"/>		

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"/>	0.05×0.3 <input checked="" type="checkbox"/>
Conductor Resistance( /m)	0.17 $\Omega$ ↓	0.27 $\Omega$ ↓	0.35 $\Omega$ ↓	0.42 $\Omega$ ↓	1.40 $\Omega$ ↓

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"/>	0.035×0.3 <input type="checkbox"/>
Conductor Resistance( /m)	0.53 $\Omega$ ↓	0.63 $\Omega$ ↓	0.96 $\Omega$ ↓	0.88 $\Omega$ ↓	1.80 $\Omega$ ↓

3) SUPPORTING TAPE

Thickness	160 $\mu$ m <input type="checkbox"/>	185 $\mu$ m <input type="checkbox"/>	223 $\mu$ m <input checked="" type="checkbox"/>
Color	White <input type="checkbox"/>		Blue <input checked="" type="checkbox"/>

4) EMI SHEILD

Structure	ALUMINUM	AL-PET	HOTMELT	IMT
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## 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	80℃ × 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

**Or, according to the customer's requirement if any.**

### ※ Conductor Resistance Table

Conductor Size	0.1×1.27	0.1×0.8	0.05×0.8	0.1×0.65	0.05×0.65	0.035×0.65	0.1×0.5	0.05×0.5	0.1×0.3	0.05×0.3	0.035×0.3
Conductor resistance (Ω /m)	0.17 Ω ↓	0.27 Ω ↓	0.53 Ω ↓	0.35 Ω ↓	0.63 Ω ↓	0.96 Ω ↓	0.42 Ω ↓	0.88 Ω ↓	0.69 Ω ↓	1.40 Ω ↓	1.80 Ω ↓

