

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

2. UL GRADE

UL	2896	20861	20624	20696	2643
RATING	80°C,30V,VW-1 ■	105°C,60V,VW-1 □	80°C,60V,VW-1 □	80°C,30V,VW-1 □	105°C,300V,VW-1 □

3. Type and symbol

Type

Ex) UL2896 - 12N × 50_{mm} * 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)



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

4. RAW MATERIALS

1) INSULATORS

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

2) CONDUCTORS

Material	Tin Coated Annealed Copper				
Conductor Size	0.1x1.27 <input type="checkbox"/>	0.1x0.8 <input type="checkbox"/>	0.1x0.65 <input type="checkbox"/>	0.1x0.5 <input type="checkbox"/>	0.05x0.32 <input 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	0.05x0.8 <input type="checkbox"/>	0.05x0.65 <input checked="" type="checkbox"/>	0.035x0.65 <input type="checkbox"/>	0.05x0.5 <input type="checkbox"/>	0.035x0.32 <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 μ m <input checked="" type="checkbox"/>	223 μ m <input type="checkbox"/>	285 μ m <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

※ 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	0.1×0.32	0.05×0.32	0.035×0.32
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 ↓