

Introduction

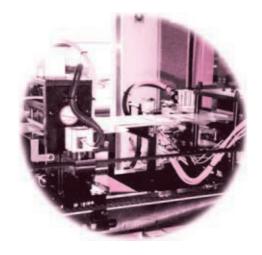
To meet the demands of miniaturizing electronic products, to solve critical Size requirement problem, CviLux is able to produce low cost multiple pitches flat flexible cables in 0.5mm, 0.8mm, 1.0mm, 1.25mm and 2.54mm per your applications requirements.

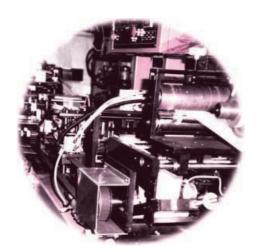
The insulation of flat flexible cables made of PET, they are options with Variety of terminal types in both cable ends per your requirement. They are small, light weight, thin, flexible and easy to connect with CviLux CF series FFC connectors.

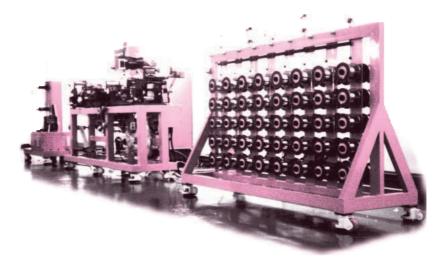
Our Flat Flexible cable can be used Several laminated copper wire, Please refer to our product specification for detail iformation.

Custom made FFC available by Consult Factory.











Features & Advantages

- Light weight and flexible
- Compactness of electronic products
- Easy assembling and low production cost
- Simple and clean internal design

Materials

Conductor : See ordering codeInsulation : Polyester (PET)

 Adhesive layer: Flame retardant Polyvinyl chloride (PVC) or Polyester adhesive layer

O Color: White

Support Tape : Polyester (PET)

O Adhesive layer : Polyester adhesive layer

O Color: Blue, Sky Blue or Clear

Rating

• UL File No. : E208903

UL Style	Temp.	Volt.
2896	80°C	30V
20624	80°C	60V
20798	80°C	60V
20706	105°C	60V
2643	105°C	300V
2742	105°C	300V
20960	105°C	300V

Applications

Super Flex Type : DVD Driver, CD ROM Driver, ETC.

● General Type: Audio, Video, Scanner, Printer, Cordless Phone, Fax M/C, Note Book P.C.,

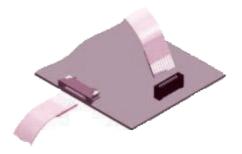
PDA, Car Audio, Home Equipment, ETC.

Shield Type : EMI Application



Connection

PLUG IN



SOLDERING





Ordering Code



- 1 Series No.
- **2** Conductor Pitch:

Code	Pitch(mm)	
А	2.54	
В	1.25	
С	1.00	
D	0.80	
Е	0.50	

Numbers for Conductor
Conductor Size

Code	Si	Applying		
Code	Thickness	Width	Pitch(mm)	
01	0.1	1.27	2.54	
02	0.1	0.8	1.25	
03	0.05	0.8	1.23	
04	0.1	0.7		
05	0.05	0.7	1.00	
06	0.035	0.7		
07	0.1	0.5	0.80	
08	0.05	0.3	0.50	
09	0.035	0.3		

Material : Tinned copper Tinned thickness : More than $1\mu m$

- **5** Terminal Type: See below Terminal Type table
- **6** Overall Length
- Strip Length: 0 = Standard
 - When the conductor pitch is 0.5 and 0.8mm;
 Standard strip length = 4.0mm
 - When the conductor pitch is 1.0, 1.25 and 2.54mm;
 Standard strip length = 5.0mm
 - Other length options available
- **3** Support Tape Length: 0 = Standard
 - When the conductor pitch is 0.5 and 0.8mm;
 Standard Strip length = 8.0mm
 - When the conductor pitch is 1.0, 1.25 and 2.54mm;
 Standard Strip length = 10.0mm
 - Other length options available
 - Max. Support Tape length: 20.0mm

Terminal Type

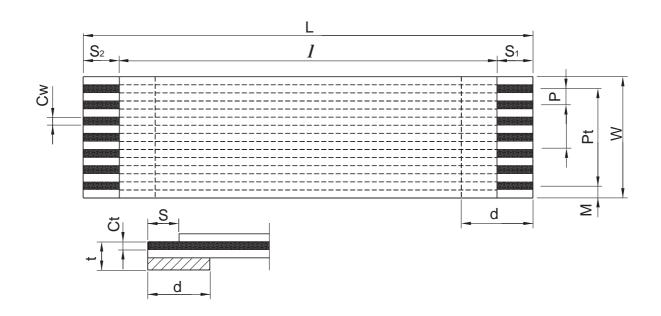
Code	Туре	Туре
T1	VIIIA VIIIA	
T2		
T3	War villa	



Shape, Construction and Dimensions

n: numbers of conductor Unit:mm

	177.4		EODANII ATION	TOLERANCE		E		
No.	ITEM	Abbr.	FORMULATION	P=0.5	P=0.8	P=1.00	P=1.25	P=2.54
1.	Pitch	Р	Typical	±0.05	±0.08	±0.08	±0.10	±0.20
2.	Total pitch	Pt	Pt=(n-1)xP	±0.08	±0.10	±0.10	±0.15	+0.2/-0.4
3.	Width	W	W=(n+1)xP	±0.08	±0.10	±0.10	±0.20	+0.2/-0.4
4.	Margin	М	M=(W-Pt)/2	±0.08	±0.15	±0.15	±0.20	±0.30
5.	Insulation length	1	I=L-(S1+S2)	(30-100)±3, (101-300)±5,(301-600)±10,		±10,		
6.	Total (Cable) length	L	L= I+(S1+S2)	(Length more than 601mm)±15mm		nm		
			When the terminal type					
7.	Strip length	S	is T1, T2 ,T3 and T4,	4±1 5±1				
			; S1=S2					
8.	Support tape length	d	d=Sx2	8±2 10±2				
9.	Conductor width	Cw	Various	0.3±0.02	0.5+0.03	0.7±0.03	0.8+0.03	1.27±0.04
J.	Conductor width	Ovv	vanous	0.510.02	0.0±0.00	0.7 ±0.03	0.0±0.00	1.27 ±0.04
				N/A		0.1±0.01		
10.	Conductor thickness	Ct	Various	0.05±0.01				
				0.035±0.01				
11.	Terminal thickness	t	Typical	0.3±0.05				





Electrical Performance

	ITEM	TEST CONDITION	REQUIREMENT									
1.	Conductor resistance	JIS C-3102 (at 20°C)	Conductor size									
					size		size		size		size	
			Ct	Cw								
				1.27	less than 0.2 Ω/m							
			0.1	0.8	less than 0.26 Ω/m							
			0.1	0.7	less than 0.33 Ω/m							
				0.5	less than 0.42 Ω /m	Tinned						
				0.8	less than 0.52 Ω/m	copper						
			0.05	0.7	less than 0.65 Ω /m							
				0.3	less than 1.4 Ω/m							
			0.035		less than 1.09 Ω /m							
			0.000	0.3	less than 2.2 Ω/m							
2.	Dielectric strength	AC 500V 1 min	NO breakdown									
3.	Insulation resistance	DC 500V	More than 1000MΩ/m									

Mechanical Performance

	ITEM	TEST CONDITION	REQUIREMENT
1.	Elongation of insulator	JIS K-6732	More than 60%
2.	Tensile strength of insulation	JIS K-6732	More than 3.5kg/mm ²
3.	Abrasion test	ø0.5mm, 600g, 60 cycles/min.	More than 10,000 times
4.	Pull-out test	_	More than 20 times

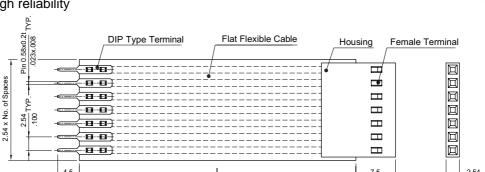
Environmental Performance

	ITEM	TEST CONDITION	REQUIREMENT	
1.	Operation temperature	_	-30°C~+80°C	
2.	Heat resistance	85°C x 95 Hrs		
3.	Heat cycle test	-40°C→+25°C→+85°C→+25°C	6.2, 6.3 Pass	
		12 Hrs x 2 cycle		
4.	Moisture resistance	40°C, 95% RH x 96Hrs		
5.	Flame test	UL Sub.758	VW-1 Pass	
6.	Flexing test	180°C folding test	More than 20 times	

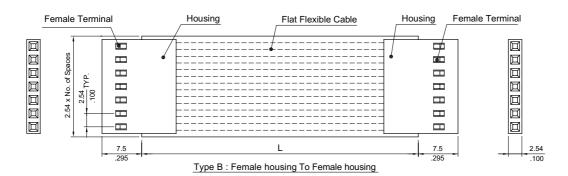


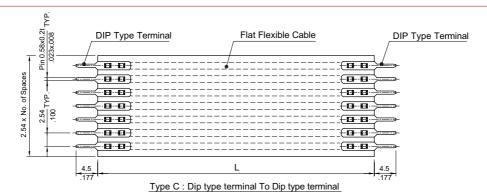
2.54mm(.100") Flat Flexible Cable Assembly

- O Designed for flat flexible cable assembly
- O Available receptacle and board in pierce contact
- O Can be mated standard 2.54mm(.100") Pin header
- O Stackable end to end side by side
- O Piercing termination provide reliable connection
- O Low cost and high reliability



Type A : Dip type terminal To Female housing





Ordering Code















- 1 Series No.
- **2** AS= Assembly
- 3Type:

A= DIP type terminal to Female housing

B= Female housing to Female housing

C= DIP type terminal to DIP type terminal

4 No. of Circuits: 02 to 13 for A and B Type

- $\begin{tabular}{ll} \begin{tabular}{ll} \beg$
 - 01= 0.1x1.27mm
- **6** FFC Overall length:

063= 63mm (Custom length option)

Other options: 00= Standard

*Special option Consult manufacturer