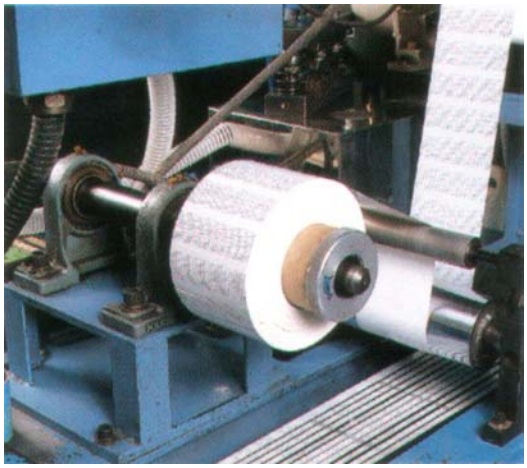
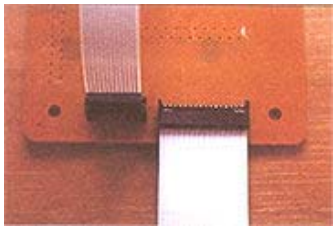
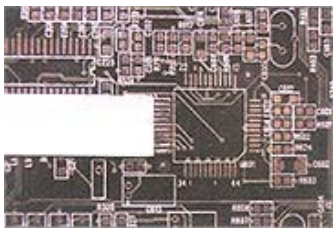
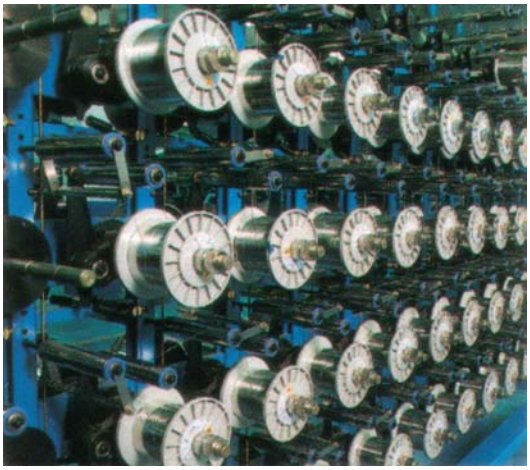
Flat Flexible Cable

Our Flat Flexible Cable (FFC) offers great advantages in th design and manufacture of electronic devices and equipments.









EASY TO USE

- Insertion to FFC connector
- Solder-type for solder to PCB

FLEXIBLE AND BENDABLE

- Connecting of Electronic Circuits with Moving Parts

MINIATURE

- Fine Pitch and Paper-Thin Body

RELIABLE

- UL Approve
- FFC can tolerate 10 millions slides

VERSATILE

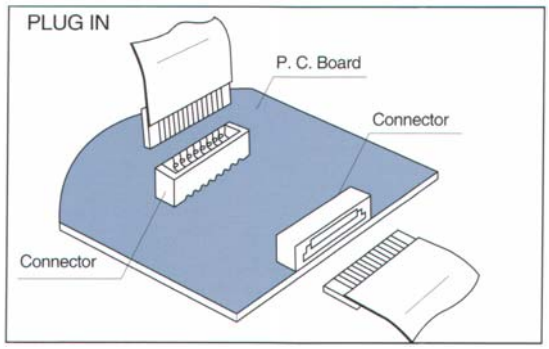
- Choices of
  - No. of Conductors
  - Pitch
  - Conductor Size
  - Strip Length
  - Supporting Tape Length
- Folding to Suit Layout

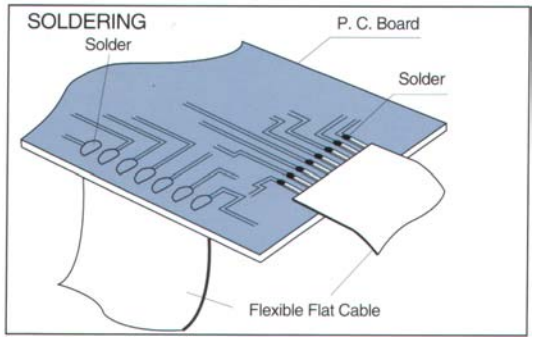
EASY LOGISTIC

- Easy to Storage and Transportation due to Light Weight and Small Volume

LOW COST

- A Cost Effective Solution for Interconnection



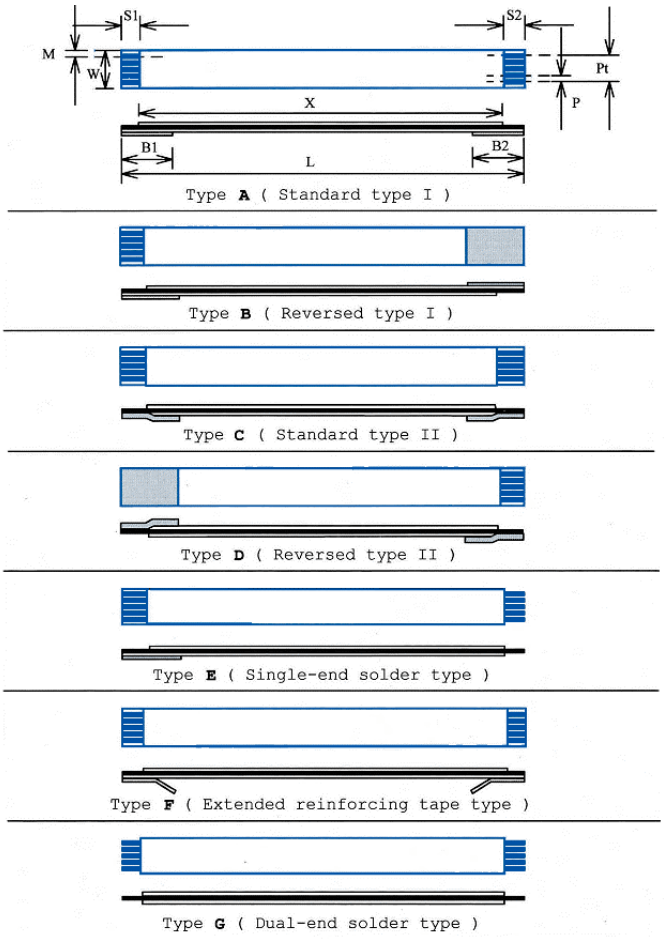


* APPLICABLE UL NO.

UL NO.	VOLTAGE RATING	OPERATING TEMPERATURE	FILE NO.
UL 20798	60V	80 °C	E 188165
UL 20861	60V	105 °C	E 146835

* SELECTION GUIDE FOR CONDUCTORS (unit：mm)

PITCH		0.5	1.0	1.25	2.54
CONDUCTORS FOR TYPE A, B, C, D, E, F	Thickness	0.035	0.1 0.035	0.1 0.05	0.1
	Width	0.3	0.7	0.8	0.8 1.27
CONDUCTOR FOR TYPE G	Thickness	-	- 0.1 (PBW)		-
	Width	-	- 0.5 (PBW)		-



SPECIFICATION

(N=NO. OF conductors)

Item	Pitch=0.5mm	Pitch=1.0mm		Pitch=1.25mm		Pitch=2.54mm	
Insulation material	Flame retardant polyester (white)						
Conductor material	Tin or solder plated flat rectangular copper wire						
Conductor size (mm)	0.035×0.3	0.035×0.7	0.1×0.7	0.05×0.8	0.1×0.8	0.1×0.8	0.1×1.27
Max. conductor resistance, Ω/mm	1.5	0.85	0.3	0.52	0.26	0.27	0.17
Total length, L (mm)	25 to 1,000						
Total length tolerance (mm)	25 to 100 ±3						
	101 to 300 ±5						
	301 to 600 ±10						
	601 to 1,000 ±20						
Pitch tolerance (mm)	±0.03	±0.08		±0.1		±0.1	
Total Pitch, Pt (mm)	0.5×(N-1)±0.03	1.0×(N-1)±0.15		1.25×(N-1)±0.15		2.54×(N-1)±0.15	
Total width, W (mm)	0.5×(N+1)±0.07	1.0×(N+1)±0.12		1.25×(N+1)±0.2		2.54×(N+1)±0.2	
Margin width, M (mm)	0.5±0.1	1.0±0.15		1.25±0.2		2.54±0.2	
Terminal thickness, t (mm)	0.3±0.05						
Strip length, S (mm)	3,4,5,6±1						
Reinforcing tape length, B (mm)	5,6,8,10,15,20±1						
UL style/ File no.	20798 / E188165 **&** 20861 / E146835						
Flame retardant test	ULVW-1						
Rating	80°C / 60V **&** 105°C / 60V						
Dielectric with standing voltage	DC500V for 1 min.						
Insulation resistance between conductors	>100MΩ (DC500V at 20°C)						
Humidity test	40°C, RH 95%, 96hours						
Flexibility test	Normal : More than 10,000 cycle						
	Abnormal : More than 10,000,000 cycle						
Ageing test	85°C, 96 hours						

SPECIFICATION GUIDE

ITEM	SELECTION				CONSIDERATION
No. of conductors	4 ~ 50				No. of circuits required
Conductor pitch	0.5mm	1.0mm	1.25mm	2.54mm	Space, PCB layout and FFC Connector pitch
Conductor size	0.035× 0.3(mm)	0.1×0.7(mm) 0.035×0.7(mm)	0.1×0.8(mm) 0.05×0.8(mm)	0.1×0.8(mm) 0.1×1.27(mm)	Conductor resistance and Flexing life
Termination	Solder-type				Solder to PCB
	Insertion-type				Insert to FFC connector
Configuration	Type A,B,C,D				Insert to FFC connector
					Orientation of FFC connector contact
	Type E				One end to be soldered to PCB and the other end to be inserted to FFC connector
	Type F				Flexing position near to supporting tape edge
	Type G				Both ends to be soldered to PCB
Overall length, L	25~1,000mm				Dimensional requirement
Strip length, S1,S2	3,4,5,6 mm (Insertion-type)				FFC connector contact distance
	3,4,5,6 mm (Solder-type)				PCB solder pad size
Reinforcing tape length, B1,B2	5,6,8,10,15,20 mm (Insertion-type)				Connector dimension, operator insertion grip length, flexing position
Folding	Up to user's design				Folding to meet layout requirement