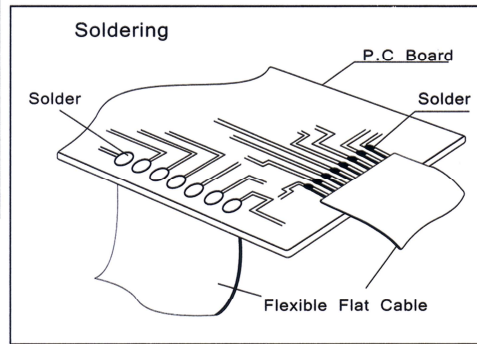
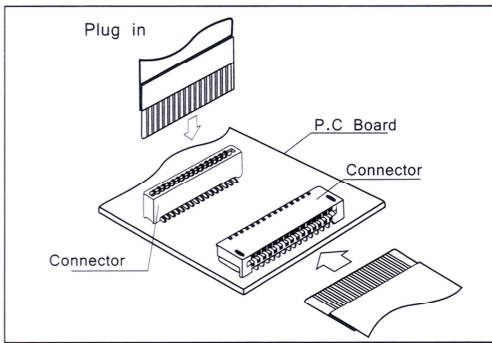


Connections



How to Order

● **FCA-30** - □ - □

Series Type Pitch
 (A,B,C,D,E,F,G) (0.5, 0.8, 1.0, 1.25, 1.27, 2.0, 2.54)

FFC FLEXIBLE FLAT CABLE

Cable Type

Type	Top View	Side View
A		
B		
C		
D		
E		
F		
G		

Selection Guide For Connectors

Pitch		0.5mm	0.8mm	1mm	1.25mm	1.27mm	2mm	2.54mm
Conductors for type B, C, D, E, F, G	Thickness X Width	0.1X0.3 (0.05X0.3) 0.035X0.3	0.1 X 0.5	0.1X0.65 0.05X0.65 0.035X0.65 0.028X0.65	0.1X0.8 0.05X0.8 (0.035X0.8)	0.1X0.8 0.05X0.8	0.1X0.65 0.1X0.8	0.1X0.8 0.1X1.27
Conductors for type A	Thickness X Width	—	0.1X0.5 (PBW)					

Electrical Characteristics

No.	Test Item	Characteristics													
1	Insulation Resistance Between Conductor	More than 100MΩ (DC500V, At°C)													
2	Dielectric Strength Between Conductors	AC500V/10mA 1MIN													
3	Conductor size	0.1 X 1.27	0.1 X 0.8	0.05 X 0.8	0.1 X 0.65	0.05 X 0.65	0.035 X 0.65	0.023 X 0.65	0.1 X 0.5	0.05 X 0.5	0.035 X 0.5	0.1 X 0.3	0.05 X 0.3	0.035 X 0.3	0.1X0.5 (PBW)
4	Conductor Resistance (/m)	0.17Ω±	0.27Ω±	0.53Ω±	0.35Ω±	0.63Ω±	0.96Ω±	1.12Ω±	0.42Ω±	0.88Ω±	1.15Ω±	0.70Ω±	1.45Ω±	1.89Ω±	2.8Ω±
5	Capacitance Between Conductors(/m)	Less Than 90pF (1.0mm Pitch) Less than 75pF (1.25mm Pitch) Less than 45pF (2.54mm Pitch) AT 1kHz													
6	Characteristic Impedance	80Ω (1.25mm PITCH) 120Ω (2.54mm PITCH)													

Physical / Mechanical Characteristics

No.	Test Item	Characteristics	
1	Aging	Left Unattended for 96 Hours at 85°C	
2	Flammability	Pass UL VW-1	
3	Temperature Cycling	- 40°C → 25°C → 85°C → 25°C → 12HRS.5 Cycles	
4	Humidity	Left Unattended for 96 Hours at 40°C 95%RH.	
5	Flexibility	Normal Type	More than 100,000 cycles (15R X 10cm X 60cycles/min.)
		Flexible Type	See "Flexibility Enhanced FFC"
6	Abrasion	No exposure of conductor should be found (0.5mm, 50cm, 600g, 60 cycle/min, more than 10,000 cycles)	
7	Bending	More than 50 cycles (±90°, 20g/Pin, 0.R)	

Characteristics of Connector Fit

No.	Item		Characteristics
1	(< 100mA) Contat resistance (Below 100mA)	Initial	≤30mΩ
		After test	≤50mΩ
2	(DC 500V) Insulation resistance between conductors (DC 500v/1min)	Initial	≤100mΩ
		After test	≤50mΩ
3	Dielectric strenght between Conductors (DC 500V / 1 min)		Withstand the voltage
4	Stability (after 20times of insert and pull out)		Must pass item No.1 and No.2
5	Temperature Cycling (MIL-STD -202E, 102A, 5CYCLES)		Must pass item No.1 and No.2
6	Salt water spray (MIL-STD-202E, 101 Dleft unattended for 48 hours)		Must pass item No.1 and No.2
7	Moisture resist (MIL-STD-202E, 106D)		Must pass item No.1 and No.2