

Specifications

Insulation Resistance:	100MΩ minimum
Contact Resistance:	20mΩ maximum
Withstanding Voltage:	500V AC rms for 1 minute
Voltage Rating:	125V DC
Current Rating:	1A
Operating Temp. Range:	-25°C to +85°C
Mating Cycles:	min 30 times

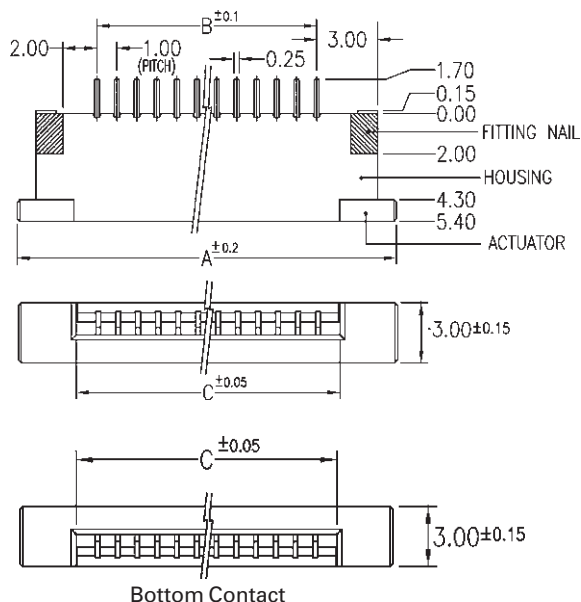
Materials and Finish

Housing:	PPS (UL94V-0)
Actuator:	PPS (UL94V-0)
Contacts:	Phosphor Bronze / Tin Plated

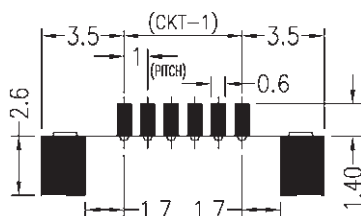
Features

- 90° SMT Zero Insertion Force connector for 1.00mm Flexible Flat Cable (FFC) and Flexible Printed Circuit (FPC) appliances
- Top or bottom contact type

Outline Dimensions for Top Contact



Recommended PCB Layouts



Part Number (Details)

FPC-96212- ** *1 - T&R

Series No.

No. of Contacts:
4 to 34 pins

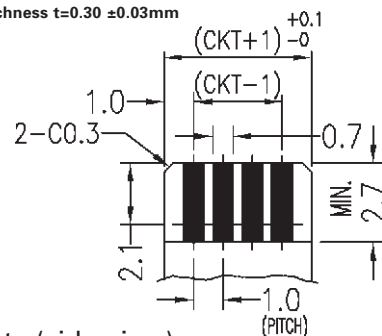
1 = Top Contact
2 = Bottom Contact

T&R: Tape and Reel 1,500pcs/reel

Applicable FFC Cable
(see page D-24)

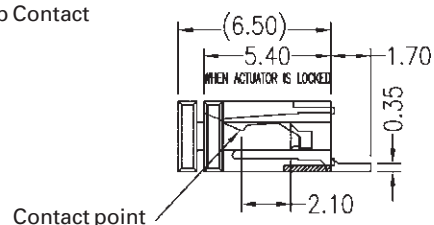
Recommended FPC Cable

Info. Thickness $t=0.30 \pm 0.03\text{mm}$

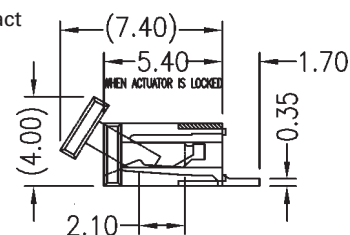


Contacts (side view)

Top Contact



Bottom Contact



Part Number	Dim. A	Dim. B	Dim. C
FPC-96212-04*1	11.00	3.00	5.15
FPC-96212-05*1	12.00	4.00	6.15
FPC-96212-06*1	13.00	5.00	7.15
FPC-96212-07*1	14.00	6.00	8.15
FPC-96212-08*1	15.00	7.00	9.15
FPC-96212-09*1	16.00	8.00	10.15
FPC-96212-10*1	17.00	9.00	11.15
FPC-96212-11*1	18.00	10.00	12.15
FPC-96212-12*1	19.00	11.00	13.15
FPC-96212-13*1	20.00	12.00	14.15
FPC-96212-14*1	21.00	13.00	15.15

Part Number	Dim. A	Dim. B	Dim. C
FPC-96212-15*1	22.00	14.00	16.15
FPC-96212-16*1	23.00	15.00	17.15
FPC-96212-17*1	24.00	16.00	18.15
FPC-96212-18*1	25.00	17.00	19.15
FPC-96212-19*1	26.00	18.00	20.15
FPC-96212-20*1	27.00	19.00	21.15
FPC-96212-21*1	28.00	20.00	22.15
FPC-96212-22*1	29.00	21.00	23.15
FPC-96212-23*1	30.00	22.00	24.15
FPC-96212-24*1	31.00	23.00	25.15

Part Number	Dim. A	Dim. B	Dim. C
FPC-96212-25*1	32.00	24.00	26.15
FPC-96212-26*1	33.00	25.00	27.15
FPC-96212-27*1	34.00	26.00	28.15
FPC-96212-28*1	35.00	27.00	29.15
FPC-96212-29*1	36.00	28.00	30.15
FPC-96212-30*1	37.00	29.00	31.15
FPC-96212-31*1	38.00	30.00	32.15
FPC-96212-32*1	39.00	31.00	33.15
FPC-96212-33*1	40.00	32.00	34.15
FPC-96212-34*1	41.00	33.00	35.15

Specifications

Insulation Resistance:	100MΩ minimum
Contact Resistance:	20mΩ maximum
Withstanding Voltage:	500V AC rms for 1 minute
Voltage Rating:	125V DC
Current Rating:	1A
Operating Temp. Range:	-25°C to +85°C
Mating Cycles:	min 30 times

Materials and Finish

Housing:	PPS (UL94V-0)
Actuator:	PPS (UL94V-0)
Contacts:	Phosphor Bronze / Tin Plated

Features

- 180° SMT Zero Insertion Force connector for 1.00mm
- Flexible Flat Cable (FFC) and Flexible Printed Circuit (FPC) appliances

Part Number (Details)

FPC-96212- ** 01 - T&R

Series No.

No. of Contacts:
4 to 32 pins

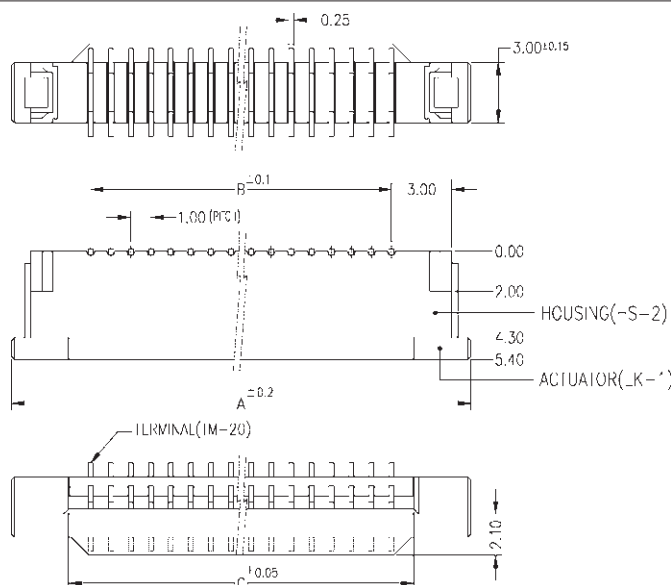
Vertical Type (180° SMT)

T&R: Tape and Reel 1,000pcs/reel

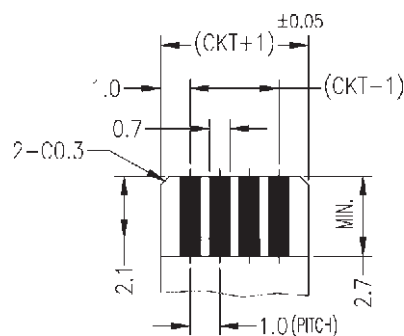


Applicable FFC Cable
(see page D-24)

Outline Dimensions for Top Contact

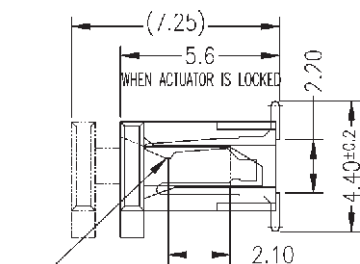


Recommended FPC Cable



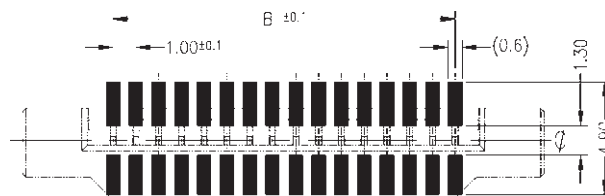
Info. Thickness $t=0.30 \pm 0.03\text{mm}$

Contact (side view)



Contact point

Recommended PCB Layouts



Part Number	Dim. A	Dim. B	Dim. C
FPC-96212-0401	11.00	3.00	5.15
FPC-96212-0501	12.00	4.00	6.15
FPC-96212-0601	13.00	5.00	7.15
FPC-96212-0701	14.00	6.00	8.15
FPC-96212-0801	15.00	7.00	9.15
FPC-96212-0901	16.00	8.00	10.15
FPC-96212-1010	17.00	9.00	11.15
FPC-96212-1101	18.00	10.00	12.15
FPC-96212-1201	19.00	11.00	13.15
FPC-96212-1301	20.00	12.00	14.15

Part Number	Dim. A	Dim. B	Dim. C
FPC-96212-1401	21.00	13.00	15.15
FPC-96212-1501	22.00	14.00	16.15
FPC-96212-1601	23.00	15.00	17.15
FPC-96212-1701	24.00	16.00	18.15
FPC-96212-1801	25.00	17.00	19.15
FPC-96212-1901	26.00	18.00	20.15
FPC-96212-2001	27.00	19.00	21.15
FPC-96212-2101	28.00	20.00	22.15
FPC-96212-2201	29.00	21.00	23.15
FPC-96212-2301	30.00	22.00	24.15

Part Number	Dim. A	Dim. B	Dim. C
FPC-96212-2401	31.00	23.00	25.15
FPC-96212-2501	32.00	24.00	26.15
FPC-96212-2601	33.00	25.00	27.15
FPC-96212-2701	34.00	26.00	28.15
FPC-96212-2801	35.00	27.00	29.15
FPC-96212-2901	36.00	28.00	30.15
FPC-96212-3001	37.00	29.00	31.15
FPC-96212-3101	38.00	30.00	32.15
FPC-96212-3201	39.00	31.00	33.15

Specifications

Insulation Resistance:	100MΩ minimum
Contact Resistance:	20mΩ maximum
Withstanding Voltage:	500V AC rms for 1 minute
Voltage Rating:	25V DC
Current Rating:	0.3A
Operating Temp. Range:	-25°C to +85°C
Mating Cycles:	min 30 times

Materials and Finish

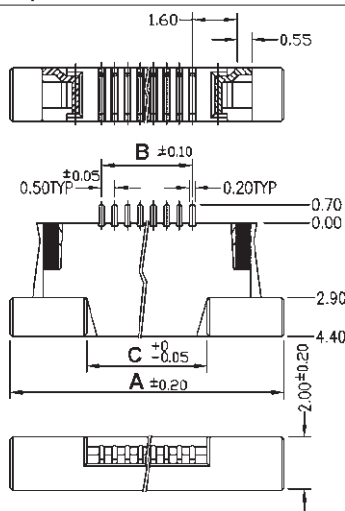
Housing:	PPS (UL94V-0)
Actuator:	PPS (UL94V-0)
Contacts:	Phosphor Bronze / Tin Plated



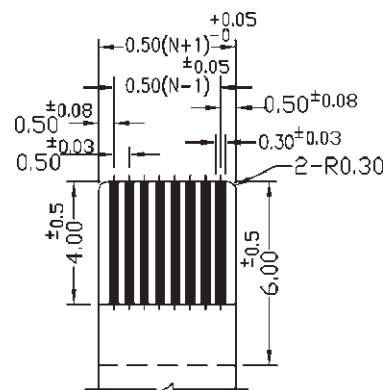
Features

- 90° SMT Zero Insertion Force connector for 0.50mm
- Flexible Flat Cable (FFC) and Flexible Printed Circuit (FPC) appliances
- Top or bottom contact type

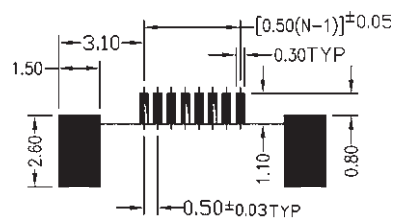
Outline Dimensions for Top Contact



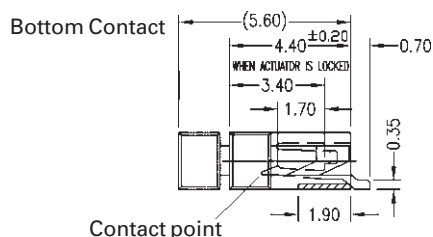
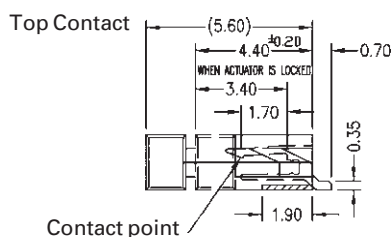
Recommended FPC Cable

Info. Thickness $t=0.30 \pm 0.03\text{mm}$ 

Recommended PCB Layouts



Contacts (side view)



Part Number	Dim. A	Dim. B	Dim. C
FPC-98210-04*1	8.50	1.50	2.60
FPC-98210-05*1	9.00	2.00	3.10
FPC-98210-06*1	9.50	2.50	3.60
FPC-98210-07*1	10.00	3.00	4.10
FPC-98210-08*1	10.50	3.50	4.60
FPC-98210-0911	11.00	4.00	5.10
FPC-98210-10*1	11.50	4.50	5.60
FPC-98210-11*1	12.00	5.00	6.10
FPC-98210-12*1	12.50	5.50	6.60
FPC-98210-13*1	13.00	6.00	7.10
FPC-98210-14*1	13.50	6.50	7.60
FPC-98210-15*1	14.00	7.00	8.10
FPC-98210-16*1	14.50	7.50	8.60
FPC-98210-17*1	15.00	8.00	9.10
FPC-98210-18*1	15.50	8.50	9.60
FPC-98210-19*1	16.00	9.00	10.10

Part Number	Dim. A	Dim. B	Dim. C
FPC-98210-20*1	16.50	9.50	10.60
FPC-98210-21*1	17.00	10.00	11.10
FPC-98210-22*1	17.50	10.50	11.60
FPC-98210-23*1	18.00	11.00	12.10
FPC-98210-24*1	18.50	11.50	12.60
FPC-98210-25*1	19.00	12.00	13.10
FPC-98210-26*1	19.50	12.50	13.60
FPC-98210-27*1	20.00	13.00	14.10
FPC-98210-28*1	20.50	13.50	14.60
FPC-98210-29*1	21.00	14.00	15.10
FPC-98210-30*1	21.50	14.50	15.60
FPC-98210-31*1	22.00	15.00	16.10
FPC-98210-32*1	22.50	15.50	16.60
FPC-98210-33*1	23.00	16.00	17.10
FPC-98210-34*1	23.50	16.50	17.60
FPC-98210-35*1	24.00	17.00	18.10

Part Number	Dim. A	Dim. B	Dim. C
FPC-98210-36*1	24.50	17.50	18.60
FPC-98210-37*1	25.00	18.00	19.10
FPC-98210-38*1	25.50	18.50	19.60
FPC-98210-39*1	26.00	19.00	20.10
FPC-98210-40*1	26.50	19.50	20.60
FPC-98210-41*1	27.00	20.00	21.10
FPC-98210-42*1	27.50	20.50	21.60
FPC-98210-43*1	28.00	21.00	22.10
FPC-98210-44*1	28.50	21.50	22.60
FPC-98210-45*1	29.00	22.00	23.10
FPC-98210-46*1	29.50	22.50	23.60
FPC-98210-47*1	30.00	23.00	24.10
FPC-98210-48*1	30.50	23.50	24.60
FPC-98210-49*1	31.00	24.00	25.10
FPC-98210-50*1	31.50	24.50	25.60
FPC-98210-60*1	36.50	29.50	30.60

Specifications

Insulation Resistance:	100MΩ minimum
Contact Resistance:	20mΩ maximum
Withstanding Voltage:	500V AC rms for 1 minute
Voltage Rating:	25V DC
Current Rating:	0.3A
Operating Temp. Range:	-25°C to +85°C
Mating Cycles:	min 30 times

Materials and Finish

Housing:	PPS (UL94V-0)
Actuator:	PPS (UL94V-0)
Contacts:	Phosphor Bronze / Tin Plated



Part Number (Details)

FPC-98210- ** 01 - T&R

Series No.

No. of Contacts:
4 to 50 pins

Vertical Type (180° SMT)

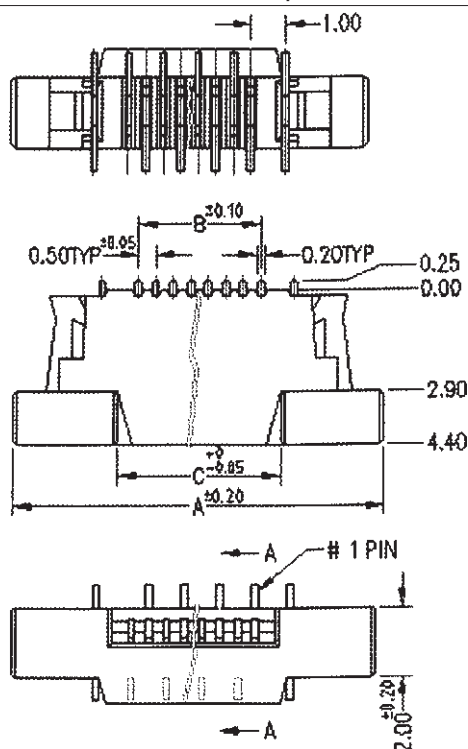
T&R: Tape and Reel 1,000pcs/reel

Applicable FPC Cable
(see page D-24)

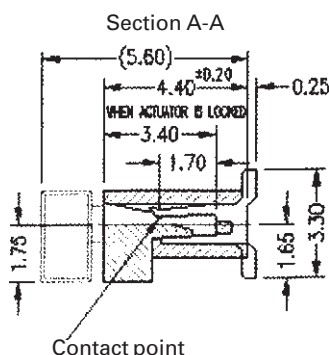
Features

- 180° SMT Zero Insertion Force connector for 0.50mm Flexible Flat Cable (FFC) and Flexible Printed Circuit (FPC) appliances

Outline Dimensions for Top Contact

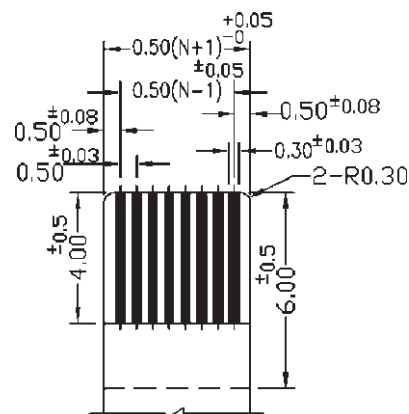


Contact (side view)

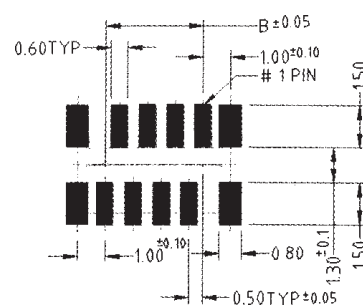


Recommended FPC Cable

Info. Thickness $t=0.30 \pm 0.03\text{mm}$



Recommended PCB Layouts



Part Number	Dim. A	Dim. B	Dim. C
FPC-98210-04-01	8.50	1.50	2.60
FPC-98210-05-01	9.00	2.00	3.10
FPC-98210-06-01	9.50	2.50	3.60
FPC-98210-07-01	10.00	3.00	4.10
FPC-98210-08-01	10.50	3.50	4.60
FPC-98210-09-01	11.00	4.00	5.10
FPC-98210-10-01	11.50	4.50	5.60
FPC-98210-11-01	12.00	5.00	6.10
FPC-98210-12-01	12.50	5.50	6.60
FPC-98210-13-01	13.00	6.00	7.10
FPC-98210-14-01	13.50	6.50	7.60
FPC-98210-15-01	14.00	7.00	8.10
FPC-98210-16-01	14.50	7.50	8.60
FPC-98210-17-01	15.00	8.00	9.10
FPC-98210-18-01	15.50	8.50	9.60
FPC-98210-19-01	16.00	9.00	10.10

Part Number	Dim. A	Dim. B	Dim. C
FPC-98210-20-01	16.50	9.50	10.60
FPC-98210-21-01	17.00	10.00	11.10
FPC-98210-22-01	17.50	10.50	11.60
FPC-98210-23-01	18.00	11.00	12.10
FPC-98210-24-01	18.50	11.50	12.60
FPC-98210-25-01	19.00	12.00	13.10
FPC-98210-26-01	19.50	12.50	13.60
FPC-98210-27-01	20.00	13.00	14.10
FPC-98210-28-01	20.50	13.50	14.60
FPC-98210-29-01	21.00	14.00	15.10
FPC-98210-30-01	21.50	14.50	15.60
FPC-98210-31-01	22.00	15.00	16.10
FPC-98210-32-01	22.50	15.50	16.60
FPC-98210-33-01	23.00	16.00	17.10
FPC-98210-34-01	23.50	16.50	17.60
FPC-98210-35-01	24.00	17.00	18.10

Part Number	Dim. A	Dim. B	Dim. C
FPC-98210-36-01	24.50	17.50	18.60
FPC-98210-37-01	25.00	18.00	19.10
FPC-98210-38-01	25.50	18.50	19.60
FPC-98210-39-01	26.00	19.00	20.10
FPC-98210-40-01	26.50	19.50	20.60
FPC-98210-41-01	27.00	20.00	21.10
FPC-98210-42-01	27.50	20.50	21.60
FPC-98210-43-01	28.00	21.00	22.10
FPC-98210-44-01	28.50	21.50	22.60
FPC-98210-45-01	29.00	22.00	23.10
FPC-98210-46-01	29.50	22.50	23.60
FPC-98210-47-01	30.00	23.00	24.10
FPC-98210-48-01	30.50	23.50	24.60
FPC-98210-49-01	31.00	24.00	25.10
FPC-98210-50-01	31.50	24.50	25.60

Specifications

Insulation Resistance:	1,000MΩ min. at 500V DC
Conductor Resistance:	C2 max. 300Ω / km C3 max. 850Ω / km C5 max. 940Ω / km C8 max. 430Ω / km
Withstanding Voltage:	500V AC rms for 1 minute (also between shield and conductor)
Voltage Rating:	30V AC rms
Operating Temp. Range:	-25°C ~ +85°C min.
Bending Cycles:	180° Folding test, 20 times min. Sliding test, r = 15mm at 120 cycles per minute minimum 200,000 times

Materials and Finish

Conductor:	Tin Plated Cu
Insulation:	PVC, white
Stiffener:	Polyester, blue



Features

- UL style 2896
- Number of Conductors with 0.50mm pitch = 4 to 60
- Number of Conductors with 1.00mm pitch = 4 to 50
- Shielded version available on request

Part Number (Details)

TF - P0.5 - C5-21-32-A-10-4

Series No.

Pitch in mm

Conductor Cross-sec.

(Thickness x Width) .

C2 = 0.10 x 0.7mm (P= 1.00mm)

C3 = 0.05 x 0.7mm (P= 1.00mm)

C5 = 0.05 x 0.3mm (P= 0.50mm)

C8 = 0.10 x 0.5mm (P= 1.00mm)

Number of Conductors

Insulation Length in mm

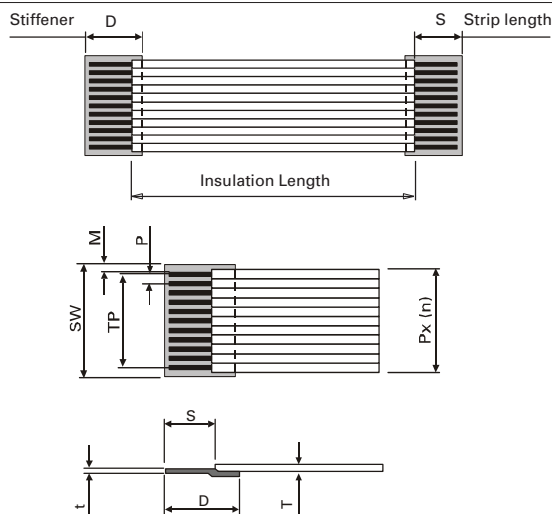
Cable Type / Styles (see drawing below)

Stiffener Length in mm (dimension D)

Length of Stripped Conductor in mm (dimension S)

Applicable ZIF Connectors
(see pages D-20 to D-23)

Outline Dimensions

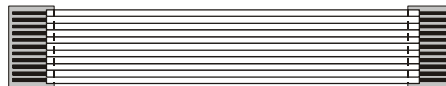


Item	Description	Specification
N	Number of Conductors	
P	Pitch in mm	0.5mm and 1.0mm
TP	Total Pitch	$P \times (n-1)$
SW	Stiffener Width	$P \times (n+1)$
M	Margin Width	C2 and C3 0= 0.65mm C5 = 0.35mm C8 = 0.75mm
T	Thickness of FFC	0.3mm
D	Stiffener Length	Standard = 10mm
S	Stripped Length	3.4mm Standard
t	Terminal Thickness	0.27mm

Cable Styles

Info.
Other pitches and cross-sections
please contact Yamaichi

Type A (std.)



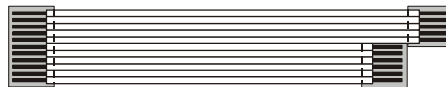
Style AS



Style AD



Style AZ



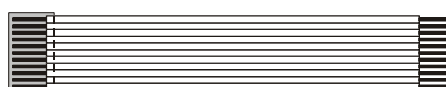
Type B (std.)

also available
Style BS
Style BD
Style BZ



Type C (std.)

also available
Style CS
Style CD
Style CZ



Type J (std.)

also available
Style JS
Style JD
Style JZ

