

Specification FA05xx33 Serie
FFC 0,5mm white Wire dimension (0,035x0,3)mm – high flexible

1 Scope

This Specification covers the construction and characteristics of 0,5mm Pitch Flat Flexible Cable of FA05xx33 Series. The part shall satisfy the following performance

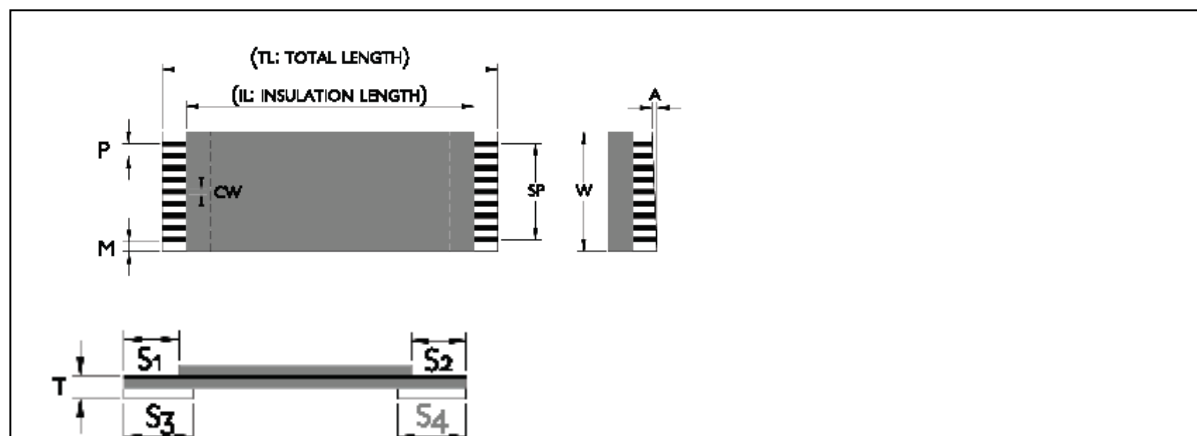
2 Construction

Item	Specification	
Insulation	Material	Flame Retardant Polyester Halogene Free
	Color	White
	Thickness	0,043mm
Conductor	Material	Copper with >1um Tin Plating
	Size	(0,035x0,3)mm
Reinforcing Tape	Material	Flame Retardant Polyester
	Thickness	0,225mm
	Color	Blue

3 Dimension

Item	Specification
No. of Conductors, N	04 - 80
Pitch (1/mm)	0,5+0,05
Total Length (1/mm)	TL
Total Pitch, SP (1/mm)	$SP=0,5x(N-1)+-0,05$
Total Width, W (1/mm)	$W=0,5x(N+1)+-0,07$
Margin width, M (1/mm)	$M=0,5+-0,08$
Cable Thickness, T	$T=0,12+-0,02$
Insertion Thickness, t (1/mm)	$t=0,3+-0,05$
Strip Length, S1, S2 (1/mm)	$S1=S2=3+-1$ *1
Reinforcing Tape Length, S3, S4	$S3=S4=6+-1$ *1
Conductor width, x (1/mm)	$0,3+-0,03$ *1
Conductor thickness, y (1/mm)	$0,035+-0,005$ *1
Slanting A(1/mm)	<0,3

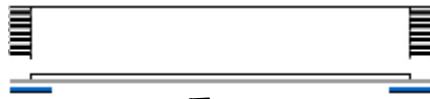
*1 For other dimension contact www.electronaix.com



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4 Types

4.1 Type A – Same Side



Print on this side: ElectronAix + Lot-No.

4.1 Type B – Opposite Side



Print on one side: ElectronAix + Lot-No.

5 Environmental

The products meet EU RoHS Directive 2011/65/eu
 The products meet EU REACH Directive 1907/2006/EU

6 Partnumber

FA05TNNPLLL-336633x

x = Option (Shield, Gold Plating, Folding)

33 = Indicator for Wire Dimension (0,035x0,3)

66 = Reinforcement Length (both ends 6mm)

33 = Strip length (both ends 3mm)

LLL = Total length

P = Fix, (No option)

NN = No. of Wires (4-80)

T = Type (A or B)

FA05 = Fix, Non UL-Series with Print and Lotnumber

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7 Characteristics

Item	Test Method	Specification
Flameability	UL	VW-1
Conductor resistance	JIS C3102 at 20°C	<2,0 Ohm/m
Insulation resistance	DC500V at 20°C	>1000 MOhm
Dielectric withstanding voltage between conductors	AC500V 1min	No Breakdown
Rated Voltage / temperature	--	60V / 80°
Rated Current	--	0,4A
Continuity	DC3,0V 0,1mA Continuity Tester	No open /short circuit
Heat Resistance	85° 96hrs	Insulation and Dielectric withstanding Voltage pass
Temperature Cycling	-40° 4hrs 85° 4hrs 25° 1hr 5 Cycles	Insulation and Dielectric withstanding Voltage pass
Humidity	40°C 95% RH 96hrs	Insulation and Dielectric withstanding Voltage pass
Flexing	180° folding 180° 15mm Radius 25mm Stroke 1000 cycles / min.	>20 Cycles >100000 Cycles
Insulation Elongation	JIS-K-6732	>60%
Insulation Tensile Strength	JIS-K-6732	>3,5Kg /mm ²
Abrasion	0,5mm, 600g 60 cycles / min.	>10000cycles