Specification FA10xx17 Series
FFC 1,0mm white Wire Dimension (0,1x0,7)mm

1 Scope

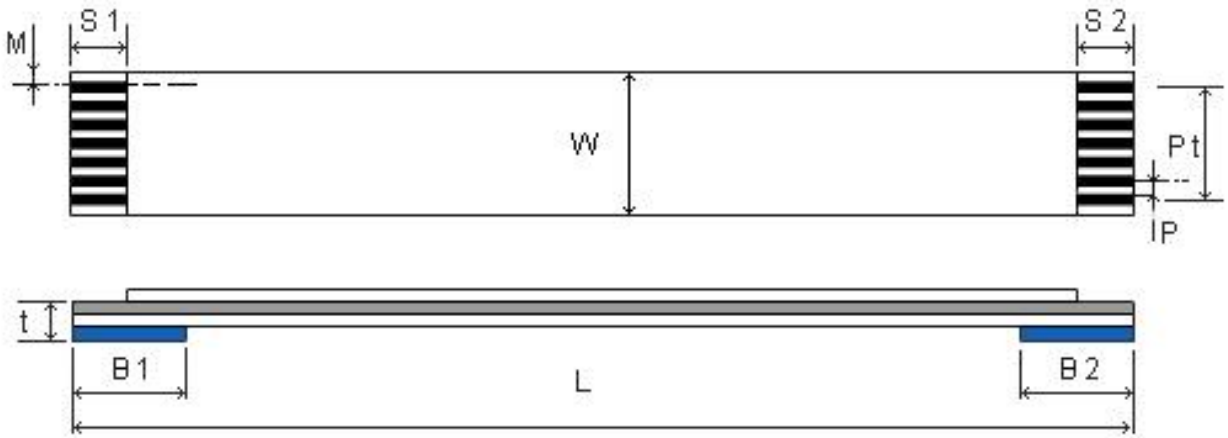
This Specification covers the construction and characteristics of 1,0mm Pitch Flat Flexible Cable of FA10xx17 Series. The part shall satisfy the following performance

2 Construction

Item	Specificaton	
Insulation	Material	Flame Retardant Polyester Halogene Free
	Color	White
	Thickness	0,06 mm
Conductor	Material	Bare Copper
	Size	(0,1x 0,7)mm
Contact Area	Material	Copper with >1um Tin Plating
Reinforcing Tape	Material	Flame Retardant Polyester
	Thickness	0,225mm
	Color	Blue

3 Dimension

Item	Specification
No. of Conductors, N	04 - 36
Pitch (1/mm)	P=1,0+-0,08
Total Length (1/mm)	TL
Total Pitch (1/mm)	Pt=1,0x(N-1)+-0,15
Total Width, W (1/mm)	W=1,0x(N+1)+-0,12
Margin Width, M (1/mm)	M=1,0+-0,12
Cable Thickness, T	T=0,22+-0,02
Insertion Thickness, t (1/mm)	t=0,3+-0,05
Strip Length, S1, S2 (1/mm)	S1=S2=4+-1 4=standard – other Length see Partnumber
Reinforcing Tape Length, S3, S4	S3=S4=8+-1 4=standard – other Length see Partnumber
Conductor Width, x (1/mm)	0,7+-0,03 0,7=standard – Options see Partnumber
Conductor Thickness, y (1/mm)	0,1+-0,005 0,1=standard – Options see Partnumber
Slanting A(1/mm)	<0,3



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4 Types

4.1 Type C – Same Side

Print on this side: ElectronAix + Lot-No.

4.1 Type D – 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

FA10TNNPLLL-448817x

Option
X = Folding, Print, Catcher, Stamping according to Customer Drawing
B = Black Line on Supporter to check correct Position
H = High Temperature 105°C
17 = Indicator for Wire Dimension (0,07x0,7)mm = standard
57 = (0,05x0,7)mm special
56 = (0,05x0,6)mm special
15 = (0,1x0,5)mm special
88=Reinforcement Tape Length (both ends 6mm = standard)
Other Length as per Customer Request.
Value must be 1,0mm bigger than strip Length
44=Strip Length (both ends 3mm = standard)
Other length as per Customer Request.
Value must be bigger than 2,0mm
LLL=Total Length in mm as per Customer Request
P=Fix, (No option)
NN=No. of Wires (4-34)
T=Type(C or D)
FA10=FFC 1,0mm Pitch with Print and Lotnumber

7 Other Options

- Gold Plated Contacts: see FA10xx17G
- Shielded: see FA10xx17S
- LVDS: see FA10xx17L
- Sidecatcher Hirose: see FACHxx
- I-Lock Iriso: see FACIxx

Any special type: on request

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8 Characteristics

Item	Test Method	Specification
Flameability	UL	VW-1
Conductor resistance	JIS C-3002	<3,0 Ω/Km
Insulation resistance	DC500V 1min.	>1000 MΩ
Dielectric withstanding voltage between conductors	AC500V 1min	No Breakdown
Rated Voltage / temperature	--	60V / 80°
Rated Current	--	0,4A
Continuity	DC3,0V 0,1mA E. 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
Folding Test	180° Folding	>10 Cycles
Flexing Test	180° 15mm Radius 25mm Stroke 1000 cycles / min.	>15.000.000 Cycles
Insulation Elongation	JIS-K-6732	>60%
Insulation Tensile Strength	JIS-K-6732	>3,5Kg /mm²
Abrasion	0,5mm, 600g 60 cycles / min.	>10000cycles

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