

FACliE-xx EMI wrapped shield FFC for IRISO IMSA i-Lock series



Features

Compatible with
IRISO IMSA i-Lock Series
Wrapped EMI Shield
High flexibility and softness

Mating Connectors:

IMSA-12001S-xx-Yxxx – horizontal 90° bottom contact

IMSA-9687-xxYxxx – vertical 180°

IMSA-9686-xxYxxx – horizontal 90° bottom contact

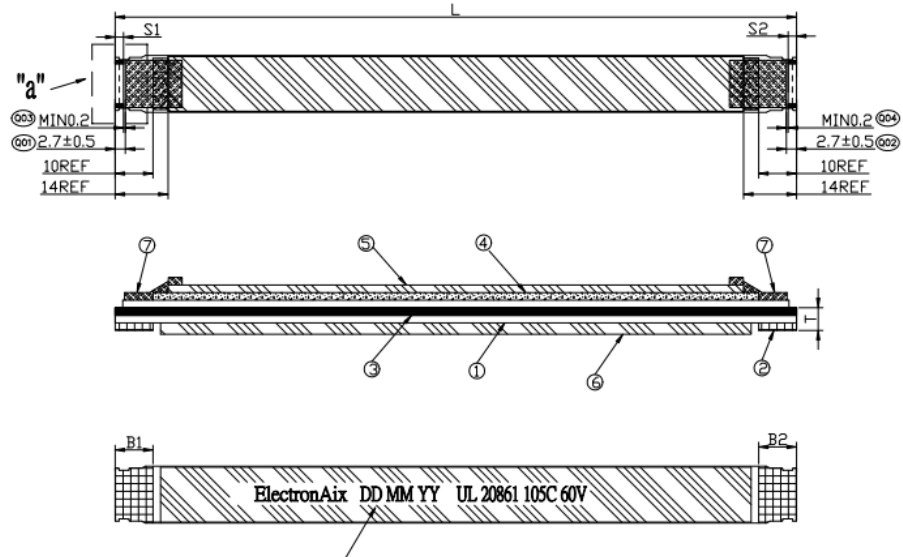
IMSA-9685-xxYxxx – horizontal 90° top contact



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Dimensions:

Drawing only for reference



Pitch	P	0.5	±0,03
Total Pitch	Pt	(n-1) x 0.5	±0.03
Width	W	(N+5) x 0.5	±0.1
Insert Thickness	T	0.3	±0.03
Strip length	S1	3.0	±0.5
	S2	3.0	±0.5
Reinforcement tape length	S3	10**	±2
	S4	10**	±2
Inner length	IL	TL-(S1+S2)	±2
Total length	TL	LLL	±2
No. of pins	N	NN	
Standard Conductor Dimension ***	Thickness 1	0.035	±0.005
	Width		+0.05
			-0.02
Slanting	A	< 0.3	

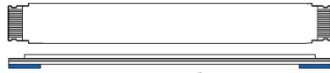
** or customized length

*** wire options see below

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Possible Types:

A = SAME = Same Side



Print on this side: ElectronAix FACliE 105°C DD MM YY

B = OPP = Opposite Side



Print on one side: ElectronAix FACliE 105°C DD MM YY

Partnumber:

FACliE			P		-	33		33	G
FACliE	T	NN	P	LLL	-	33	SS	33	G
									<i>Gold Plating</i>
								Wire Dimension 0,3x0,035 no option	
							SS= Supporter Tape Length; 10mm/10mm = Standard		
							<i>Strip Length in 3mm/3mm – no option</i>		
				LLL= Total Length in mm					
				<i>P=Positions</i>					
		NN= No of Wires: 10 to 80							
	T= Type: A= same Side / B= Opposite Side								
<i>FACliE Product Series = FFC Aix Catcher Iriso i-Lock for double sided wrapped EMI shield</i>									

Wire options

P/N	Thickness	Width	Resistance (Ohm)	Rated Current
32	0,032	0,28	2.6Ω/m	0.3A
33*	0,035	0,3	2.0Ω/m	0.3A
53	0,05	0,3	1.6Ω/m	0.4A

*standard

Contact us for customization:

- 125°C / 1000hrs High Temperature Resistance
 - Shielded with double side laminated shield
 - LVDS single sided foil with Impedance 90Ω or 100Ω up to 17Gbit/sec
 - Special print or labels
 - Folding
 - Other wire dimension
- FACli-xx-T
 - FACliE-xx-L
 - FACliL-xx-H

Environmental

The products meet EU RoHS Directive 2011/65/EU, including the delegated regulation (EU) 2015/863
The products meet EU REACH Directive 1907/2006/EU



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Specification

1. Scope

For Laminated Flat Cable (Flat Conductor) With Reinforcing Tape

2. Applicable documents

The specification covers the construction and electrical properties of laminated flat cable (Flat Conductor) with reinforcing tape based on UL subject 758.

3. Material

3.1 Insulation: PET, White, T=0.06mm, UL20706 105°C 60V VW-1

3.2 P/ Tape: PET, T=0.225mm

3.3 Plating: Au (2µ" min)

4. Rating

4.1 Operating Voltage : 60V

4.2 Current Rating : 0.3A

4.3 Normal use Inserting: 5 cycles

4.4 Ambient Temperature Range: -40 ~ + °C 85°C

4.5 Warehouse Conditions: 25°C±15°C ; ≤60%RH

5. 6. Appearance

Reference 《DOC-JWI-QA0121-XXX FFC Inspection SOP

6 Tests

Item	Test Method	Specification
Conductor resistance	JIS C3102 at 20°C	See Table
Insulation resistance	DC250V (0,5mm Pitch) 20°C DC500V (1,0mm Pitch) 20°C	>100 MOhm >100 MOhm
Dielectric withstanding voltage between conductors	AC250V 1min (0,5mm Pitch) AC500V 1min (1,0mm Pitch)	No Breakdown Current Leakage 1mA max
Flexing	180° bending U-Bending R5x50mm Stroke 60 cycles / min	>20 Cycles >100.000 Cycles
Heat Resistance	105°C 96hrs	Insulation and Dielectric withstanding Voltage pass
Temperature Cycling	- 40° 4hrs +25° 2hrs +110° 4hrs +25° 2hrs 5 Cycles	Insulation and Dielectric withstanding Voltage pass
Cold Resistance	-40°C 96hrs	Insulation and Dielectric withstanding Voltage pass
High Temperature High Humidity	60°C 90-95%RH 96hrs	Insulation and Dielectric withstanding Voltage pass
Salt Spray	35°C 24hrs PH 6.5-7.2	before and after test, no corrosion and oxidation at contact area

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7 Special Attention

- 7.1 Please hold supporting tape, then insert or pull out the FFC from a connector in a straight
- 7.2 When insert to connector, please avoid excessive force
- 7.3 After insert to connector, shall be not bended at Supporting-tape excessive,because Joiner is broken
- 7.4 For gold plated FFC,there is the Ni-plating, so please do not bend the FFC at the terminal part of Conductor. Otherwise a crack will be occured at the plated part; after insert into the Connector, please also do not bend the FFC at the part of Supporting-tape, otherwise a crack will be occured at the plated part.
- 7.5 Please avoid excessive force around supporting-tape
- 7.6 Please evaluate FFC properties in advance when use under particular condition (High temperature, High Humidity etc).There is possibility to be corrosion after 6 month
- 7.7 Please avoid the moving wiring at bending portion
- 7.8 Please estimate enough space when Joiner is used the moving wiring
- 7.9 When dropped to the floor, please clean Joiner's leads
- 7.10 Please don't touch the terminal part of the Conductor by hand, for it will cause discolored or rusted
- 7.11 Please don't use the sulfurous material together with the FFC to prevent short circuit between sulfurized conductors
- 7.12 Before Assembly: Expiry Date For One Year
After Assembly: Expiry Date For Fifteen Years