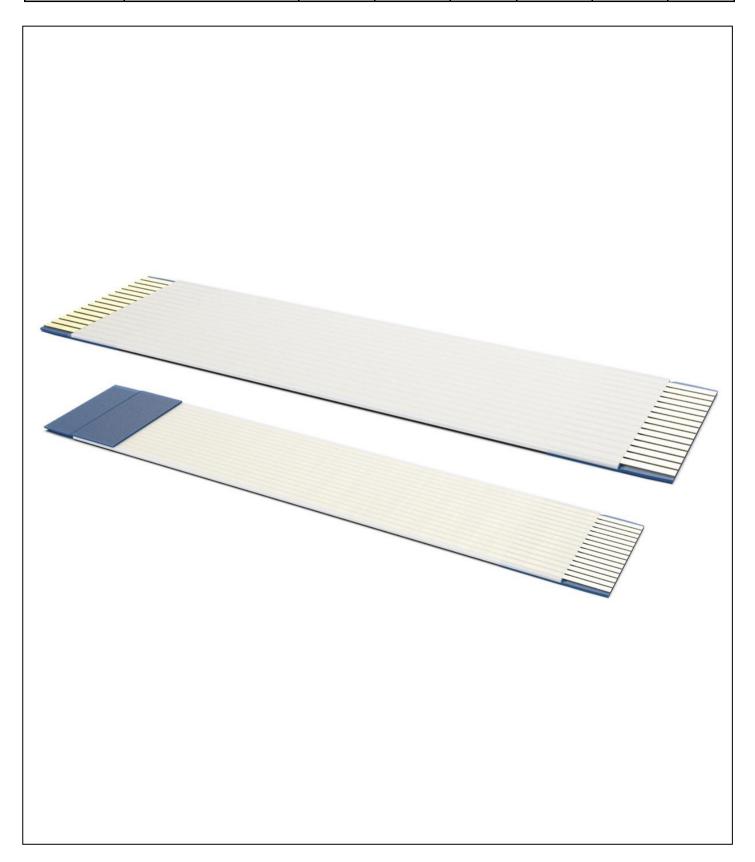
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1. SCOPE

This specification covers tolerances and characteristics of standard Flat Flex Cables, applicable to FFC Cable drawing rev.B or later.

2. GENERAL TOLERANCES

No.	Description	Size (mm)	FFC pitch & tol	lerance (mm)	
INO.	Description	Size (IIIIII)	0.5	1.0	
		≤50	±1.	5	
		51 – 100	±2	-	
1	Overall Length (L)	101 – 300	±3	3	
		301 – 800	±5	5	
		>800	±19	%	
		0.035	±0.0)5	
2	Conductor Thickness	0.05	±0.0	05	
		0.1	±0.0)1	
3	Conductor Width	0.3	±0.0	0.03	
3	Conductor width	0.65	±0.0	03	
4	Pitch	0.5	±0.05		
4	FILCIT	1.0		±0.05	
5	Cable Width (W)	0.5	±0.08		
5	Cable Width (W)	1.0		±0.1	
6	Exposed Conductor Length	≤6	±1		
		4 – 6	±1		
7	Support Strip Length	6 – 7	±1.	5	
		>8	±2	-	



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2 CHADA	STEDIOTION							
3. CHARAC	CTERISTICS							
	Item	T	est Conditi	on		Requireme	ent	
	Conductor Resistance (0.5mm pitch)					2.2Ω/m Max.		
	Conductor Resistance (1.0mm pitch)	JIS-C	JIS-C-3102 (at 20°C)				ax.	
	Insulation Resistance	Apply 500Vdc for 1 min				1000MΩ N	1in	
	Rated Current (0.5mm pitch)	-				0.5A		
	Rated Current (1.0mm pitch)					1.0A		
Electrical	Dielectric Strength	500Vac, 0.5mA, 1 min, adjacent conductors in air 1000Vac, 0.5mA, 1 min, adjacent conductors in water				No breakdo	own	
	Continuity	Ī	DC3V tester		е	o open circu ach conduct short circui djacent cond	or, no t to	
	Rated Voltage and Temperature		UL 758			60V, +80°C 05°C depend UL style	ding on	
	Operating Temperature	Fixed wiring				40°C to +80 05°C depend UL style	ding on	
	Flammability	L	JL 758 VW	-1		Pass		
Physical	Resistance to Heat	+85°C or +110°C (depending on UL style) for 96hrs			UL	o negative in on insulati resistance dielectric stre	on or	
	Resistance to Humidity	+40°C, 95% RH for 96hrs				o negative in on insulati resistance dielectric stre	on or	



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Temperature and Humidity Cycling -40°C (0% RH) → +25°C (65% RH) → +85°C (95% RH) → +25°C (65% RH), 5 cycles		No negative impact on insulation resistance or dielectric strength
Flex Life (Folding Test)	600g weight, 0.5mm R, 180°, 60 cycles/min	100 cycles Min.
Flex Life (Reciprocating Test)	10mm R, 180mm stroke, 70 cycles/min	100,000 cycles Min.
Abrasion	Ø0.5mm, 600g, 60 cycles/min	100,000 cycles Min.
Insulation Elongation		70% Min.
Insulation Tensile Strength	JIS-K-6732	3.5kg/mm² Min.
	Between conductor and insulator	0.2kg/cm Min.
Adhesive Strength	Between insulator and insulator	0.6kg/cm Min.
	Between support strip and insulator	0.2kg/cm Min.
Durability	Insertion and withdrawal	30 cycles Min.



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Revision details:

Revision	Information	Page	Release Date
0.1	Initial draft	-	23/06/2023
0.2	Revised draft	-	05/07/2023
А	Formal release	-	07/07/2023

