

Standard Flat Flexible Cable (FFC)

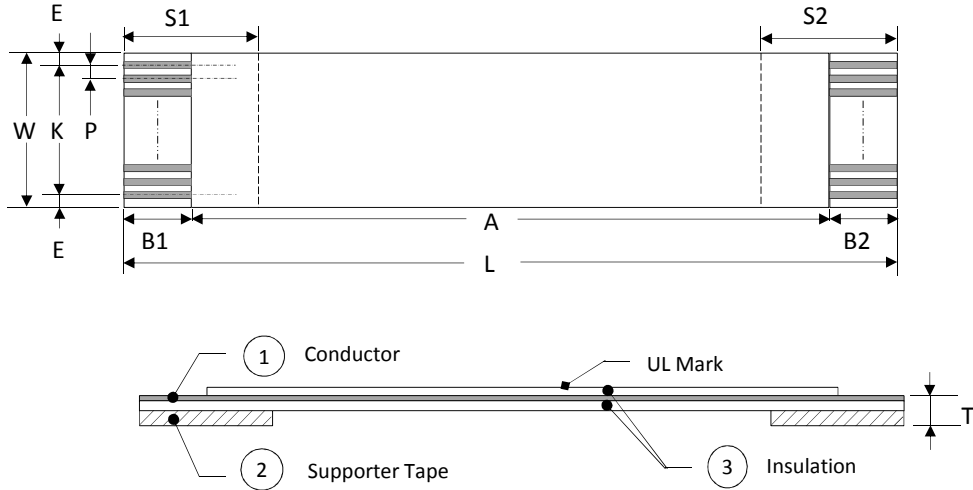


Alysium-Tech GmbH.
Alysium-Tech Ltd.
Alysium-Tech America LLC.
Alysium-Tech Asia Sdn Bhd.

Web: <http://www.alsium-tech.com>

Released : Jan 2013 by Engineering Section
Rev: 01

1.0 General Construction



Unit : mm

Name	Symbol	Range/Formula	Pitch		
			0.5	1.0	1.25
No of Pin	N		5-60	4-50	3-40
Pitch	P		±0.05	±0.08	±0.1
Total Pitch	K	$K = P \times (N-1)$	±0.05	±0.12	±0.15
Width	W	$W = P \times (N+1)$	±0.07	±0.12	±0.2
Edge Width	E		±0.1	±0.15	±0.2
Strip Length	B1, B2	$B \leq 4$	±0.5		
		$4 < B \leq 6$	±1.0		
Supporter Length	S1, S2	$S < 6$	±1.0		
		$6 \leq S < 8$	±1.5		
		$8 \leq S < 10$	±2.0		
		$10 \leq S$	Discussion		
Insulation Length	A	$A < 100$	±2.0		
		$100 \leq A < 300$	±3.0		
		$300 \leq A < 500$	±5.0		
		$500 \leq A < 1000$	±10.0		
		$1000 \leq A < 2000$	±20.0		
		$2000 \leq A$	Discussion		
Total Length	L		Reference Value		
Terminal Thickness	T		±0.05		

2.0 Material Type

Component	Material
Conductor	Tin Plating Flat Copper Wire
	Zinc Nano-Coat Whisker Controlled Tin Coating
	Au/Ni Plated Flat Copper wire
Insulation	Polyester. Color: White, Black
Supporter Tape	Polyester. Color: White, Blue and Green

3.0 UL Standard

UL Style Number	Rating
2869	80°C, 30V
20624, 21147	80°C, 60V
20861	105°C, 60V
Flammability	VW-1

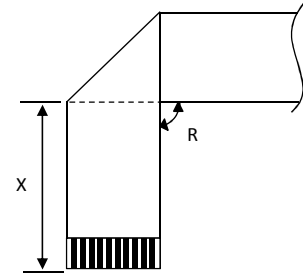
4.0 Bending

Unit: mm

X	Tolerance
X < 30	±1
30 ≤ X < 50	±1.5
50 ≤ X < 100	±2.0
100 ≤ X < 300	±3.0
300 ≤ X < 600	±4.0
600 ≤ X < 1000	±5.0

Unit: °

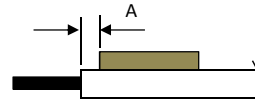
R	Tolerance
R < 180	±3



5.0 Double Sided Tape

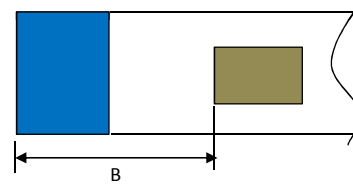
Unit: mm

A	Tolerance
A ≤ 5	±0.5



Unit: mm

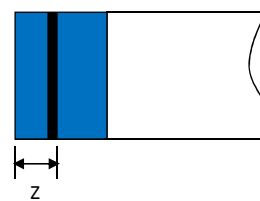
A	Tolerance
0 < B ≤ 5	±1.5
20 < B ≤ 90	±2.0
90 < B ≤ 200	±3.0
200 < B ≤ 500	±4.0



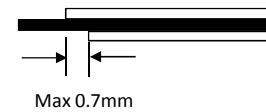
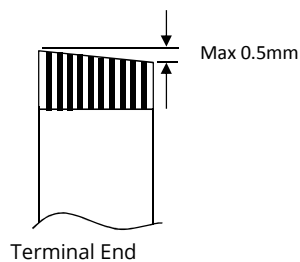
6.0 Line Mark

Unit: mm

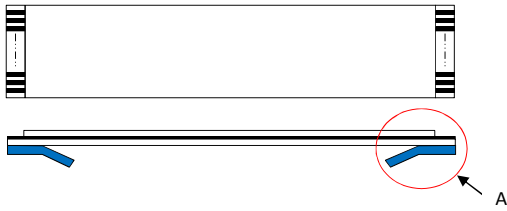
Z	Tolerance
Z ≤ 5	±1.0
Z > 5	±1.5



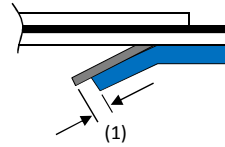
8.0 Slanting / Uneven



8.0 Half Stick Supporter



Detail A

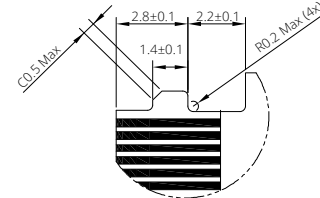


Laminate with transparent thin PET tape

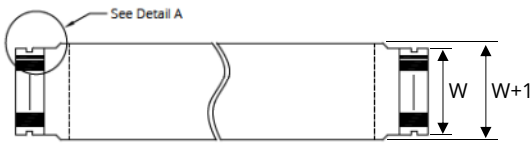
9.0 Trimming Terminal End



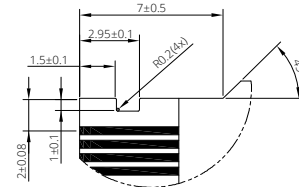
Detail A



Connector Type: HIROSE FH 28



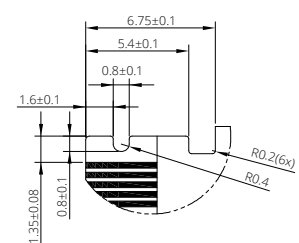
Detail A



Connector Type: IPEX Evaflex5 SE

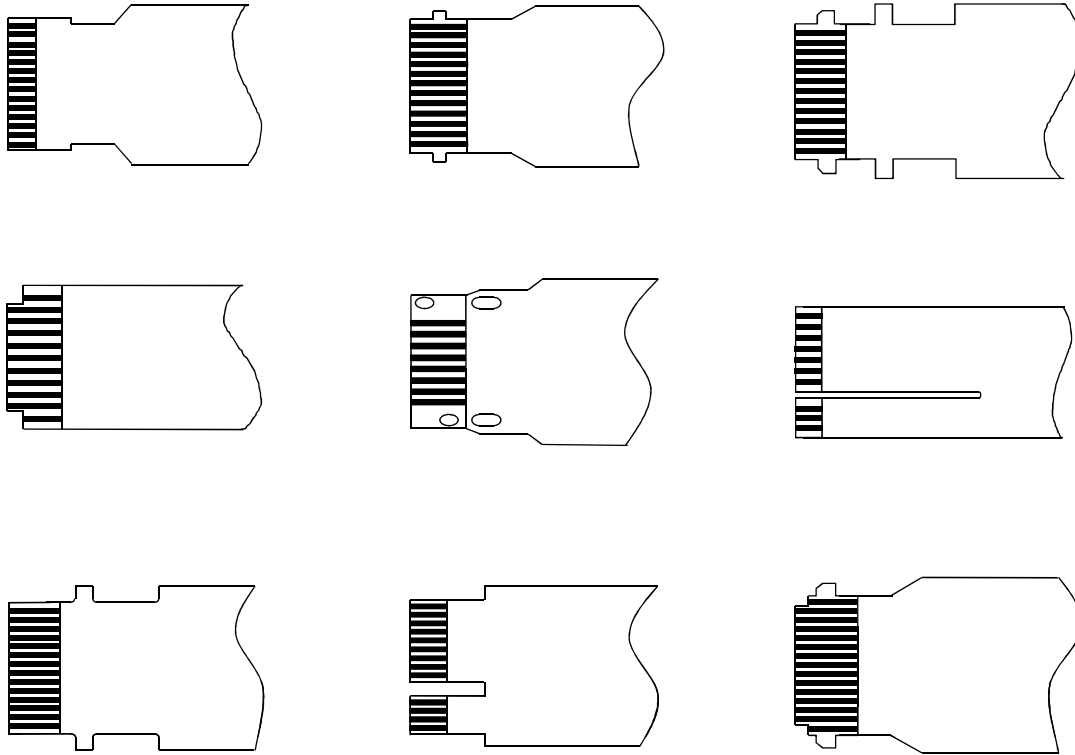


Detail A



Connector Type: IPEX Cabline FD

9.1 Customize Trimming Terminal End



Note: Customer can has own customize FFC terminal end design to suit with connector mating.