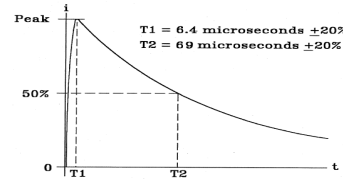


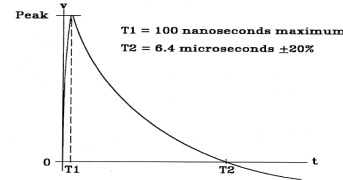
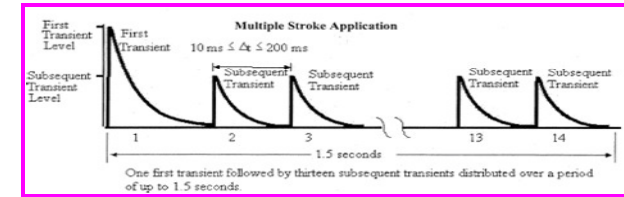
ECAT Lightning Test System RTCA-DO160, and EUROCAE/ED-14: the basis for avionics testing by Boeing, Airbus, other avionics relevant standards

Waveform 1: Current



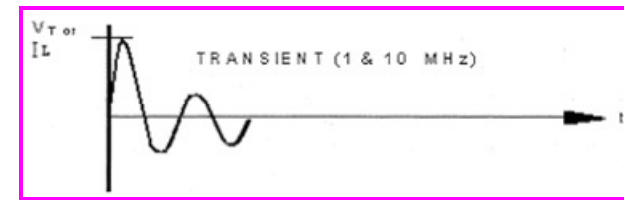
W1: Cable Bundle SS		
Level	Vlimit	Itest
1	50	100
2	125	250
3	300	600
4	750	1500
5	1600	3200

W1: Cable Bundle MS				
Level	First Stroke		Subsequent Stroke	
	Vlimit	Itest	Vlimit	Itest
1	50	50	25	25
2	125	125	62.5	62.5
3	300	300	150	150
4	750	750	375	375
5	1600	1600	800	800

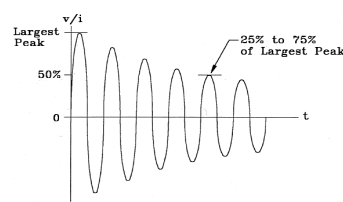


W2: Cable Bundle SS		
Level	Vtest	Ilimit
1	50	100
2	125	250
3	300	600
4	750	1500
5	1600	3200

W2: Cable Bundle MS				
Level	First Stroke		Subsequent Stroke	
	Vtest	Ilimit	Vtest	Ilimit
1	50	50	25	25
2	125	125	62.5	62.5
3	300	300	150	150
4	750	750	375	375
5	1600	1600	800	800



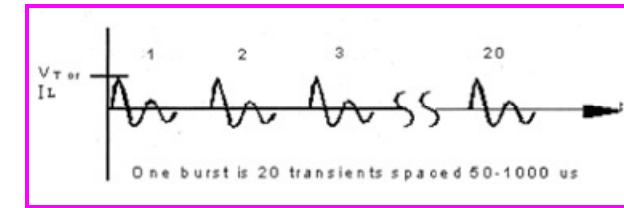
Waveform 3: Voltage



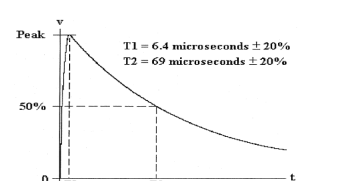
W3: Pin Injection		
Level	Voc	Isc
1	100	4
2	250	10
3	600	24
4	1500	60
5	3200	128

W3: Cable Bundle SS		
Level	Vtest	Ilimit
1	100	20
2	250	50
3	600	120
4	1500	300
5	3200	640

W3: Cable Bundle MS				
Level	First Stroke		Subsequent Stroke	
	Vtest	Ilimit	Vtest	Ilimit
1	100	20	50	10
2	250	50	125	25
3	600	120	300	60
4	1500	300	750	150
5	3200	640	1600	320



Waveform 4: Voltage

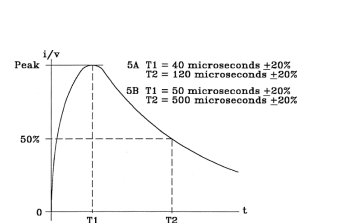


W4: Pin Injection		
Level	Voc	Isc
1	50	10
2	125	25
3	300	60
4	750	150
5	1600	320

W4: Cable Bundle SS		
Level	Vtest	Ilimit
1	50	100
2	125	250
3	300	600
4	750	1500
5	1600	3200

W4: Cable Bundle MS				
Level	First Stroke		Subsequent Stroke	
	Vtest	Ilimit	Vtest	Ilimit
1	25	50	12.5	25
2	62.5	125	31.25	62.5
3	150	300	75	150
4	375	750	187.5	375
5	800	1600	400	800

Waveform 5: Current



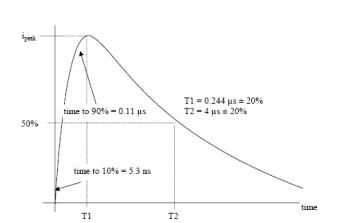
W5A: Pin Injection		
Level	Vlimit	Itest
1	50	50
2	125	125
3	300	300
4	750	750
5	1600	1600
Boeing	2000	2000

W5A: Cable Bundle SS		
Level	Vlimit	Itest
1	50	150
2	125	400
3	300	1000
4	750	2000
5	1600	5000
X	3200	10000

W5B: Cable Bundle SS		
Level	Vlimit	Itest
1	50	150
2	125	400
3	300	1000
4	750	2000
5	1600	5000

W5A & B: Cable Bundle MS				
Level	First Stroke		Subsequent Stroke	
	Vlimit	Itest	Vlimit	Itest
1	20	60	10	30
2	50	160	25	80
3	120	400	60	200
4	300	800	150	400
5	640	2000	320	1000

Waveform 3H & 6H: Current Multi Burst



Waveform	W3H		W6H	
	Vtest	Ilimit	Vlimit	Itest
1	60	1	70	5
2	150	2.5	180	12.5
3	360	6	430	30
4	900	15	1080	75
5	1920	32	2290	160

BOEING Multi burst W3		
Level	Vtest	Ilimit
A	50	10
B	150	30
C	300	60
D	1000	200

