

CONTROL LINE SPEED RULES - 2012

(Numbers in small font are AMA Rules maximum speeds for lines and maximum speeds for pull tests in MPH.)

CLASS	LAPS	LINE LENGTH	LINE DIAMETER		MINIMUM DIAMETER	MINIMUM DIAMETER	MAXIMUM WEIGHT	PULL TEST				
			1 - LINE	2 - LINES								
1/2A	5	47.47"	0.014"	167.38MPH	0.012"	178.72MPH	0.112" /	10 oz				
									47' - 5 5/8"	(minimum 0.0135)	(minimum 0.0115)	
1/2A	10	42' - 0"	-	0.010"	148.15	(min 0.0095")	22 oz	56 G				203.18
A	6	65' - 0"	0.022"	203.42	0.018"	208.36	0.125"	22 oz	56 G	203.18	48 G	195.21
B	6	70' - 0"	0.026"	196.15	0.020"	189.41	0.125"	35 oz	48 G	195.21	52 G	203.18
D	6	70' - 0"	0.033"	212.01	0.026"	209.76	0.125"	47 oz	52 G	203.18	56 G	210.85
JET	6	70' - 0"	0.033"	212.01	0.026"	209.76	0.125"	47 oz	56 G	210.85	42 G	169.05
SPORT JET	7	60' - 0"	-	-	0.022"	169.35	0.125"	45 oz	42 G	169.05	48 G	180.73
FORMULA 40	14	60' - 0"	-	-	0.020"	177.92	0.125"	34 oz	48 G	180.73	40 G	164.98
21 SPORT	7	60' - 0"	-	-	0.018"	184.14	0.125"	30 oz	40 G	164.98	36 G	147.56
21 PROTO	14	60' - 0"	-	-	0.018"	153.13	0.125"	30 oz	36 G	147.56	25 G	109.12
A ELECTRIC	8	52' - 6"	-	-	0.014"	97.06	0.112"	30 oz	25 G	109.12	32 G	130.43
B ELECTRIC	7	60' - 0"	-	-	0.022"	121.22	0.125"	60 oz	32 G	130.43	50 G	181.41
F2A	9	17.69 M	58.04'	58 1/2"	0.389mm to 0.41mm	0.01531" to 0.01618"	0.125"	-	50 G	181.41		

If one line of a two-line system fails, or if a monoline fails, the lines will be impounded and examined for failure cause.
 FUEL: For all AMA Classes: 10% NITROMETHANE, 70% METHANOL, 20% LUBRICANTS. (15% Klotz & 5% Castor)
 For Jet & Sport Jet: 80% METHANOL, 20% NITROMETHANE. For F.A.I. F2A: 80% METHANOL, 20% CASTOR OIL.
 Speed formulas based on actual distance of timed laps, except for F2A which assumes one kilometer.

For B, D, JET, SPORT JET,
 21 SPORT, 1/2A Proto, A & B ELECTRIC:
 $V_{mph} = \frac{TIME_{in\ SEC}}{1799.28}$

For 1/2A Speed:
 $V_{mph} = \frac{TIME_{in\ SEC}}{1016.79}$

For F.A.I. F2A:
 $V_{kph} = \frac{TIME_{in\ SEC}}{3600.00}$

For A Speed:
 $V_{mph} = \frac{TIME_{in\ SEC}}{1670.76}$
 Area Elliptical wing=Span x cord x .7854
 $V_{mph} = V_{kph} \times 0.6214$