7/16" Steel Tube with Lead Wire

WEIGHT INCREASE* (lb) FOR 65" AILERON (GAP NOT FILLED)

7/16" OD Steel Tube			Lead Wire Diameter				
			0.1875	0.2188	0.2500	0.3125	0.3750
	WALL	ID	(3/16)	(7/32)	(1/4)	(5/16)	(3/8)
	0.0280	0.382	-1.3748	-1.1088	-0.8029	-0.0676	**0.8311**
	0.0350	0.368	-1.2228	-0.9568	-0.6509	**0.0844**	
	0.0490	0.340	-0.9358	-0.6698	-0.3639	**0.3714**	
	0.0650	0.308	-0.6356	-0.3696	-0.0637		
	0.0950	0.248	-0.1528	**0.1132**			
	0.1200	0.198	**0.1698**				

INTERFERENCE

WEIGHT INCREASE* (lb) FOR 65" AILERON (GAP FILLED WITH EPOXY)

7/16" OD Steel Tube			Lead Wire Diameter				
			0.1875	0.2188	0.2500	0.3125	0.3750
	WALL	ID	(3/16)	(7/32)	(1/4)	(5/16)	(3/8)
	0.0280	0.382	-1.1387	-0.8999	-0.6253	**0.0348**	**0.8416**
	0.0350	0.368	-1.0091	-0.7703	-0.4957	**0.1644**	
	0.0490	0.340	-0.7644	-0.5256	-0.2510	**0.4091**	
	0.0650	0.308	-0.5085	-0.2697	**0.0049**		
	0.0950	0.248	-0.0970	**0.1418**			
	0.1200	0.198	**0.1780**				

INTERFERENCE

DIAMETRAL CLEARANCE

7/16" OD Steel Tube			Lead Wire Diameter				
			0.1875	0.2188	0.2500	0.3125	0.3750
	WALL	ID	(3/16)	(7/32)	(1/4)	(5/16)	(3/8)
	0.0280	0.382	0.1940	0.1628	0.1315	0.0690	0.0065
	0.0350	0.368	0.1800	0.1488	0.1175	0.0550	
	0.0490	0.340	0.1520	0.1208	0.0895	0.0270	
	0.0650	0.308	0.1200	0.0888	0.0575		
	0.0950	0.248	0.0600	0.0288			
	0.1200	0.198	0.0100				

INTERFERENCE

* compared with 7/16" diam. steel bar
- lead wire length is the same as the length of tube
- epoxy density assumed at 1.16 g/cm3 for MGS335
- all dimension in inches