



510 Series



R270 (510 SERIES):

510 Series: low-pressure PTFE hose with non-metallic braid for specialized aerospace applications. The hose consists of convoluted (tape wrap) PTFE innercore, similar to the 410 Series, except the 510 Series is reinforced with a braid of Nomex® instead of CRES. This construction provides an exceptionally tight bend radius, and light weight. Standard fittings are aluminum and CRES. Operating pressures range from 300 PSI (21 Bar) in the smaller diameters to 200 PSI (14 Bar) in the larger diameters. Fire protection is available with slip-on AS1072 firesleeve. Popular applications for the 510 Series include breathing oxygen and electronic cooling fluids. Hybrid assemblies combining flex hose with multi-bend tube are a Titeflex specialty and provide improved vibration dampening, ease of installation, and maintenance over strictly rigid tube.

SERIES: 510**SPECIFICATION:** None**BRAID:** Nomex®**INNERCORE:** PTFE Convoluted**QUALIFICATIONS:**

Qualified to numerous aerospace application specific requirements

ENGLISH

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1'	BEND RADIUS (MIN)/2'	PROOF PRESSURE	NEGATIVE PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	psi	in	in	in	lb/in	in	psi	in Hg	psi	psi
4	300	0.28	0.44	0.465	0.004	0.5	600	28	120	900
6	300	0.362	0.54	0.57	0.005	0.75	600	28	1,200	900
8	250	0.518	0.74	0.77	0.01	1	500	28	1,000	750
10	250	0.605	0.825	0.86	0.011	1.5	500	28	1,000	750
12	200	0.77	1.055	1.09	0.015	2	400	28	800	600
16	200	0.985	1.27	1.31	0.02	3	400	9	800	600

NOTES /1/ Over minimum 12 inch length /2/ Inside of bend

METRIC

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1'	BEND RADIUS (MIN)/2'	PROOF PRESSURE	NEGATIVE PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	bar	mm	mm	mm	g/m	mm	bar	mm Hg	bar	bar
4	21	7.1	11.2	11.8	67	12.7	41	711	83	63
6	21	9.2	13.7	14.5	91	19.1	41	711	83	63
8	17	13.2	18.8	19.6	185	25.4	34	711	69	52
10	17	15.4	22.1	21.8	202	38.1	34	711	69	52
12	14	19.6	26.8	27.7	274	50.8	28	711	55	41
16	14	25	32.3	33.3	357	76.2	28	217	55	41

NOTES /1/ Over minimum 305mm length /2/ Inside of bend



1845 Town Center Blvd. #140, Orange Park, FL 32003
(904) 215 -9638 www.aero-hose.com



Revision NC