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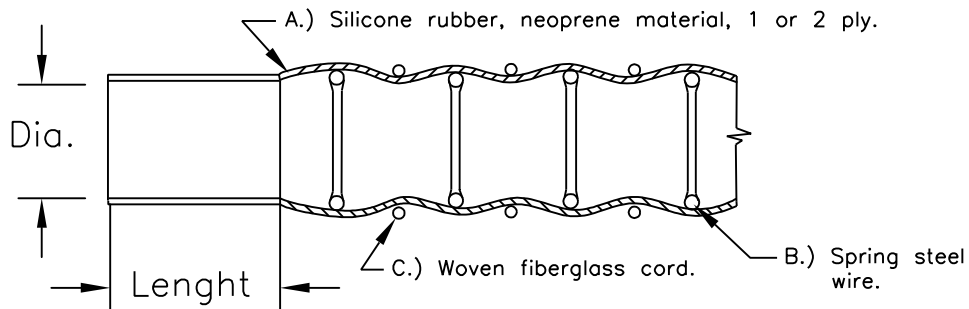
REVISION BLOCK

REV	ECN #	ZONE	DESCRIPTION OF CHANGE(S)	DATE	APPROVED
REV-0			Initial Release	9-27-11	JRM

Note: Request for CUSTOM (silicone, neoprene) ducting, add on or modification to part numbers listed on web site.

Item	Description	Specifications:
A.)	Aviation Ducting Material Silicone Fiber Glass: U-9	This Aviation ducting is a (1Ply) material, i.e. a silicone rubber coated fiber-glass fabric material with an internal spring steel wire and external woven cord for maximum reinforcement.
B.)	Reinforcement:	Interior: Corrosion resistant spring steel wire helix designed to resist kinking and or crushing of the ducting material. Exterior: Woven fiberglass cord coated with silicone material.
C.)	Temperature:	-65 degrees F to 550 F, (inter) 600F
D.)	Color:	Red/orange
E.)	Sizes Available:	5/8 inches to 12.00 inches (see above listing).
F.)	Length:	As Required.
G.)	End Cuff:	We can manufacture any (END CUFF),(Adapter), (CUSTOM) size ducting, i.e. neoprene 1/2 ply, fitting onto silicone 1/2, neoprene 1/2 ply per customers drawing.
H.)	Utilization:	HVAC, fresh air venting, defrosting systems. Designed for low pressure ducting used within the aviation industry.
I.)	Flexibility:	Bend radius is equal to the diameter of the ducting.
J.)	Flammability Rating:	Flammability Rating - UL94V0.
K.)	Mil Spec:	Mil -H-6202BA, Mil-H-5593, Mil-1140, Mil-prf-6202BB, Mil-7628, Mil-Y-1140, Mil-7628, NAS-1370-1379

Item	Description	Specifications:
A.)	Ducting Material:	The typical aviation material for (positive) ducting is (silicone) rubber or (neoprene) coated fiber-glass fabric material with an internal spring steel wire and external woven cord for maximum reinforcement. Note: LSA also has PMA on 5/8 inch poly and can provide alternative materials to meet your requirements or specification needed for your application. Email engineering for assistance for your ducting needs.
B.)	Reinforcement:	Interior: Corrosion resistant spring steel wire helix designed to resist kinking and or crushing of the ducting material. Exterior: Woven fiberglass cord coated with silicone material. Note: LSA can provide other types of support to meet your requirements or specification needed for your application. Email engineering for assistance.
C.)	Temperature:	-65 degrees F to 550 F, (inter) to 600F, ie. silicone materials. Note: LSA can provide higher temperature materials for your high temperature requirements or specification needed for your application. Email engineering for assistance.
D.)	Color:	Red/Orange/Black/Silver/Gray Note: List any other requirements or specification needed for your application. Call or email engineering for assistance.
E.)	Sizes Available:	5/8 to 12.00 inches (see web site listing). Note: LSA can provide different sizes to meet your requirements or specification needed for your application. Email engineering for assistance.
F.)	Ducting Length:	13 foot lengths. Note: LSA standard lengths are sold in 12 or 13 foot lengths. If you have custom requirements or specification needed for your application. Email engineering for assistance.
G.)	End Cuff: Custom Products:	LSA can design and manufacture to your company drawings for any (END CUFF), (Adapter), (coupling) or (CUSTOM Manifold), size or shape ducting, i.e. neoprene 1/2 ply, fitting onto silicone 1/2, neoprene 1/2 ply per customers drawing. Note: List any other requirements or specification needed for your application. Email engineering for assistance.
H.)	Aircraft, Rotor-Craft Applications:	HVAC, fresh air venting, defrosting systems, avionics, entertainment equipment cooling. LSA can design low, high pressure ducting used within the aviation industry. Note: List any other requirements or specification needed for your application. Email engineering for assistance.
I.)	Flexibility:	Bend radius is equal to the diameter of the ducting. Note: List any other requirements or specification needed for your application. Email engineering for assistance.
J.)	Flammability Rating:	Flammability Rating - FAR Part 23.853, FAR Part 23 Appendix F, UL94V0. Note: List any other requirements or specification needed for your application. Email engineering for assistance.
K.)	Mil Spec:	Mil -H-6202BA, Mil-H-5593, Mil-1140, Mil-prf-6202BB, Mil-7628, Mil-Y-1140, Mil-7628, NAS-1370-1379 Note: List any other requirements or specification needed for your application. Email engineering for assistance.



Example Customer Drawing:
Silicone 1 ply, with End Cuff's
requested dimensions.

ITEM #	QTY.	PART NO.	DESCRIPTION
UNLESS NOTED OTHERWISE TOLERANCE BLOCK: DIMENSIONS ARE IN INCHES DECIMALS ±1° ANGULAR XX ± .030 XXX ± .015 XXXX ± .0005 DO NOT SCALE DRAWING			PROPRIETARY THIS DOCUMENT AND THE DATA DISCLOSED HEREWITH IS NOT TO BE REPRODUCED, USED, OR DISCLOSED IN WHOLE OR IN PART TO ANYONE WITHOUT WRITTEN AUTHORIZATION FROM LONE STAR AVIATION, INC
MATERIAL: Silicone, Neoprene Poly, Alternate			APPROVALS: DRAWN BY L DAVIS 09-27-11 APPROVED BY JRM 09-27-11
FINISH: NOTE 1			DATE: 09-27-11
TITLE: Drawing: Custom part number		SIZE: A	DRAWING NO. LSPE: 122253
SCALE: NONE		COMP. FILE	SHEET 1 OF 1

