

AN AMERICAN NATIONAL STANDARD

FED. SUP. CL. 4720

AS1633

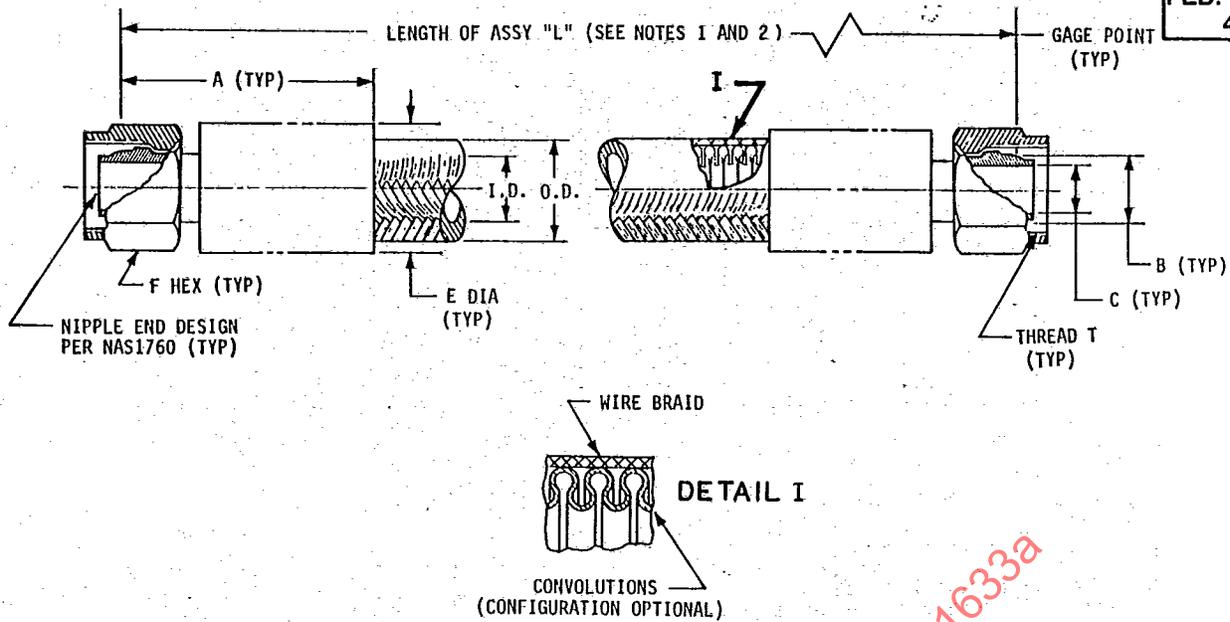


FIGURE 1

TABLE I

HOSE ASSEMBLY NO. AND SIZE CODE	HOSE ASSEMBLY SIZE (REF)	THREAD T PER MIL-S-8879 (REF)	I.D. MIN	A MAX	B GAGE DIA BASIC	C 5 DRILL DIA MIN	E 6 DIA MAX WITHOUT SLEEVING	F HEX (REF)
AS1633-04	1/4	.4375-20 UNJF-3B	.270	1.11	.2930	.132	.55	.56
AS1633-06	3/8	.5625-18 UNJF-3B	.355	1.33	.4120	.256	.65	.69
AS1633-08	1/2	.7500-16 UNJF-3B	.510	1.52	.5600	.345	.86	.88
AS1633-10	5/8	.8750-14 UNJF-3B	.600	1.71	.6730	.430	.95	1.00
AS1633-12	3/4	1.0625-12 UNJ-3B	.765	1.89	.8100	.635	1.28	1.25
AS1633-16	1	1.3125-12 UNJ-3B	.980	2.00	1.0620	.835	1.47	1.50
AS1633-20	1-1/4	1.6250-12 UNJ-3B	1.220	2.53	1.3160	1.085	1.70	2.00
AS1633-24	1-1/2	1.8750-12 UNJ-3B	1.480	2.69	1.5650	1.310	2.00	2.25

TABLE II

HOSE ASSEMBLY LENGTH	AVAILABLE INCREMENTS	TOLERANCE
UNDER 18 INCHES	(NOT LESS THAN) .125 INCH	(PLUS OR MINUS) .125 INCH
18 TO 36 INCHES	(NOT LESS THAN) .250 INCH	(PLUS OR MINUS) .250 INCH
36 TO 60 INCHES	(NOT LESS THAN) .500 INCH	(PLUS OR MINUS) .500 INCH
OVER 60 INCHES	(NOT LESS THAN) 1.000 INCH	(PLUS OR MINUS) 1 PERCENT

TABLE III

HOSE OR COVER CODE	HOSE OR TYPE OF PROTECTIVE COVER	HOSE OR COVER O.D. ± .032								UPPER TEMP. LIMIT OF
		HOSE LENGTH								
		1/4	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	
NONE	HOSE ONLY	.445	.555	.755	.850	1.060	1.270	1.526	1.790	400
B	SPIRAL ABRASION	.505	.615	.825	.935	1.140	1.330	1.630	1.890	275
D	INTEGRAL ABRASION	.562	.688	.906	1.000	1.203	1.438	1.688	1.937	325
H	INTEGRAL FIRESLEEVE	---	.830	1.010	1.170	1.360	1.510	1.750	2.000	400
N	FIRESLEEVE SIL/FG (AS 1072)	.760	.870	1.030	1.130	1.370	1.630	1.870	2.130	400
K	INTEGRAL ABRASION (BRAIDED) POLYESTER	.500	.630	.840	.920	1.135	1.345	1.600	1.870	300

SHEET	1	2	3
REV.	A	A	A

CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: AS 620

SAE The Engineering Resource For Advancing Mobility®

AEROSPACE STANDARD
HOSE ASSEMBLY, CONVULATED, TETRAFLUOROETHYLENE, FLARELESS STRAIGHT TO STRAIGHT

AS1633

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TABLE IV PHYSICAL REQUIREMENTS OF HOSE ASSEMBLIES

HOSE SIZE (REF)	OPERATING PRESSURE MAX. PSI	PROOF PRESSURE MIN. PSI	BURST PRESSURES		BEND RADIUS AT INSIDE OF BEND INCHES (HOSE ONLY)
			ROOM TEMP MIN. PSI	HIGH TEMP MIN. PSI	
-04	1000	2000	4000	2800	1.25
-06	1000	2000	4000	2800	2.25
-08	1000	2000	4000	2800	2.88
-10	1000	1800	3600	2500	3.00
-12	1000	1800	3600	2500	3.75
-16	1000	1800	3600	2500	5.00
-20	1000	1800	3600	2500	6.25
-24	750	1500	3000	2100	7.50

TABLE V NOMINAL WEIGHTS

HOSE SIZE (REF)	HOSE ONLY LBS/IN.	HOSE WITH SLEEVING LBS/IN.					STRAIGHT END FITTING LBS EACH	HOSE LENGTH CORRECTION FACTOR-IN. B
		SPIRAL ABRASION CODE B	INTEGRAL ABRASION CODE D	INTEGRAL FIRESLEEVE CODE H	TUBULAR FIRESLEEVE CODE N	POLYEST. ABRASION CODE K		STRAIGHT
-04	.007	.010	.012	--	.017	.008	.06	.50
-06	.010	.014	.017	--	.021	.012	.11	.61
-08	.015	.020	.025	.032	.030	.018	.18	.80
-10	.020	.025	.030	.042	.035	.022	.27	.84
-12	.025	.030	.036	.050	.042	.026	.37	.86
-16	.030	.036	.050	.055	.054	.035	.56	.99
-20	.050	.060	.061	.070	.077	.045	.98	1.11
-24	.060	.071	.075	.082	.107	.058	1.48	1.26

TABLE VI

HOSE SIZE	LENGTH (INCHES)
04 06	2.00 ±.25
08 10	2.50 ±.25
12 16	3.00 ±.25
20 24	3.50 ±.25

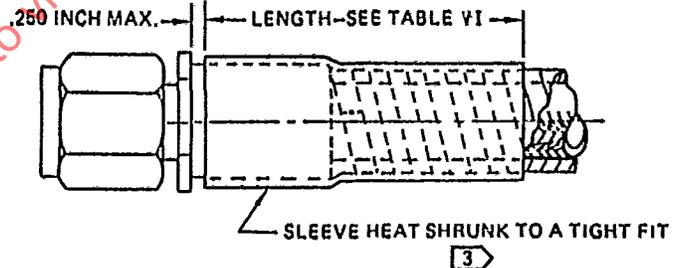


FIGURE 2

CONSTRUCTION AND PERFORMANCE: THESE HOSE ASSEMBLIES SHALL MEET THE CONSTRUCTION AND PERFORMANCE REQUIREMENTS OF AS 620. FITTINGS SHALL BE PERMANENTLY ATTACHED TO THE HOSE.

RATED OPERATING CHARACTERISTICS: SEE AS 620

MATERIALS: HOSE AND FITTINGS - PER AS 620, TYPE II, CLASS 1 OR CLASS 2 AS SPECIFIED BY PART NUMBER.

SPIRAL ABRASION COVER - BLACK, NYLON COIL PER AS 1294.

INTEGRAL FIRESLEEVE COVER - RED OR BROWN, SILICONE.

INTEGRAL ABRASION COVER - BLACK, INTEGRALLY BONDED SILICONE COMPOSITE.

FIRE SLEEVE, TUBULAR - FIBERGLASS SILICONE PER AS 1072.

INTEGRAL ABRASION SLEEVE (BRAIDED) POLYESTER.

MARKING: THE HOSE ASSEMBLIES SHALL HAVE ALL IDENTIFICATION MARKING AS REQUIRED BY AS 620, ELECTRO-ETCHED ON A STAINLESS STEEL BAND NOT MORE THAN 1.0 INCH WIDE. THE CHARACTERS SHALL BE A MINIMUM OF 1/16 INCHES HIGH. THE BAND SHALL BE TIGHT ON THE HOSE BUT WITHOUT PINCHING, AND SHALL BE PERMANENTLY ATTACHED. VARIABLE DATA, SUCH AS MANUFACTURING DATE AND "PT" SYMBOL MAY BE ELECTRO-ETCHED ON ONE END FITTING.

(A)

AEROSPACE STANDARD
HOSE ASSEMBLY, CONVOLUTED,
TETRAFLUOROETHYLENE,
FLARELESS, STRAIGHT TO STRAIGHT

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