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AS6997™

FEDERAL SUPPLY CLASS
4720

RATIONALE

NEW FLARELESS STRAIGHT TO 45° CONVULATED HOSE STANDARD IN ACCORDANCE WITH AS1227
PROCUREMENT SPECIFICATION.

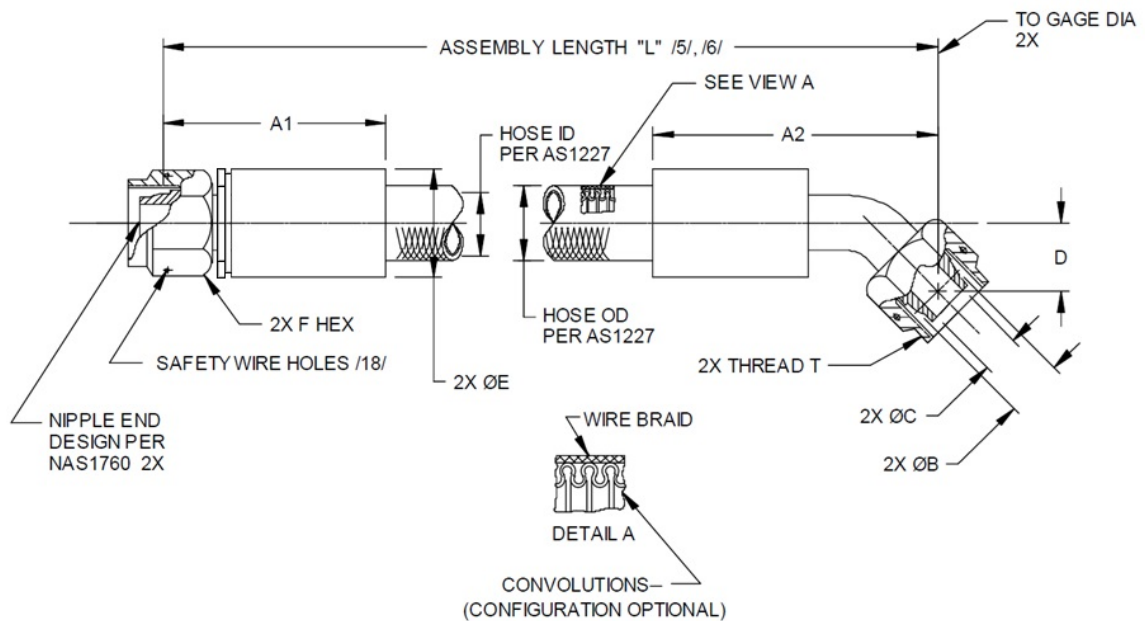


FIGURE 1 - HOSE ASSEMBLY

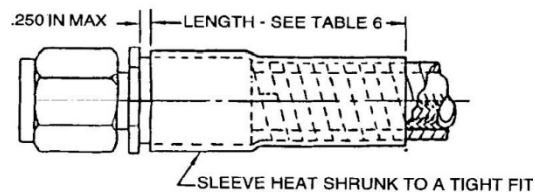


FIGURE 2 - SPIRAL AND POLYESTER ABRASION COVER /7/, /8/

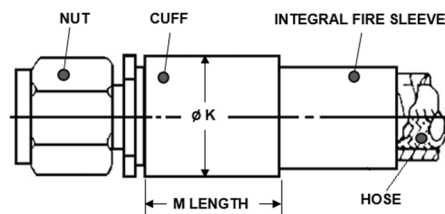
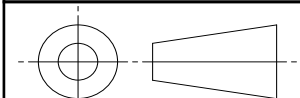


FIGURE 3 - INTEGRAL FIRESLEEVE CUFF DIMENSIONS (SEE TABLE 9) /17/

For more information on this standard, visit
<https://www.sae.org/standards/content/AS6997/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: AS1227 /2/



AEROSPACE STANDARD

HOSE ASSEMBLY, CONVULATED, PTFE, METALLIC
REINFORCED, LOW PRESSURE, CONDUCTIVE,
FLARELESS, STRAIGHT TO 45°

AS6997™
SHEET 1 OF 7

Documents

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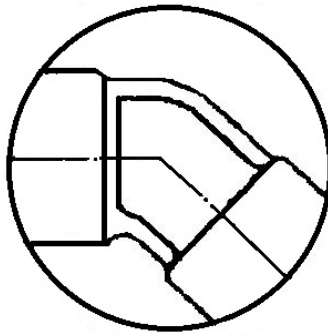


FIGURE 4 - ALTERNATE ELBOW CONFIGURATION /19/

TABLE 1 - ASSEMBLY DIMENSIONS

HOSE ASSEMBLY AS6997 SIZE CODE /22/	HOSE ASSEMBLY SIZE (REF)	THREAD T PER AS8879 (REF)	A1 MAX	A2 MAX	DIA B GAGE BASIC	DIA C /9/ MIN	D MIN MAX	DIA E/10/ MAX WITHOUT SLEEVING	F HEX (REF)
04	.250	.4375-20 UNJF-3B	1.27	1.66	.2930	.132	.384 .522	.55	.56
06	.375	.5625-18 UNJF-3B	1.35	1.93	.4120	.249	.469 .582	.68	.69
08	.500	.7500-16 UNJF-3B	1.52	2.16	.5600	.333	.541 .651	.86	.88
10	.625	.8750-14 UNJF-3B	1.71	2.55	.6730	.415	.643 .773	.95	1.00
12	.750	1.0625-12 UNJ-3B	1.89	2.87	.8100	.564	.697 .830	1.28	1.25
16	1.000	1.3125-12 UNJ-3B	2.01	3.19	1.0620	.795	.816 .979	1.47	1.50
20	1.250	1.6250-12 UNJ-3B	2.53	4.02	1.3160	1.026	.893 1.089	1.70	1.81
24	1.500	1.8750-12 UNJ-3B	2.69	4.57	1.5650	1.258	1.232 1.400	2.00	2.12
32	2.000	2.5000-12 UNJ-3B	3.41	5.50	2.0680	1.720	1.361 1.525	2.56	2.75

TABLE 2 - ASSEMBLY LENGTH TOLERANCE /6/

+ .250/- .125 INCH	FOR LENGTHS UNDER 18 INCHES
+ .500/- .250 INCH	FOR LENGTHS FROM 18 TO 36 INCHES EXL.
+ 1.000/- .500 INCH	FOR LENGTHS FROM 36 TO 50 INCHES EXL.
+ 2%/- 1%	FOR LENGTHS 50 INCHES AND OVER

	AEROSPACE STANDARD	AS6997™ SHEET 2 OF 7 
	HOSE ASSEMBLY, CONVOLUTED, PTFE, METALLIC REINFORCED, LOW PRESSURE, CONDUCTIVE, FLARELESS, STRAIGHT TO 45°	



TABLE 3 - HOSE OR COVER MIN/MAX OUTSIDE DIAMETER

COVER CODE	HOSE OR TYPE OF PROTECTIVE COVER	HOSE SIZE									UPPER TEMP LIMIT °F	
		.250	.375	.500	.625	.750	1.00	1.25	1.50	2.00	CLASS 1	CLASS 2
-	HOSE ONLY PER AS1227	.413 .477	.523 .587	.723 .787	.818 .882	1.028 1.092	1.266 1.330	1.494 1.558	1.758 1.822	2.293 2.357	400	275
B	SPIRAL ABRASION /7/	.505	.615	.825	.935	1.140	1.358	1.630	1.890	2.395	275	275
C	FIRESLLEEVE SIL/FG (AS1072) (15 MINUTES) /12/, /13/, /14/	.900	1.030	1.150	1.380	1.590	1.800	2.060	2.320	2.960	400	275
H	INTEGRAL FIRESLLEEVE SILICONE (15 MINUTES) /12/	.710 .760	.798 .862	.978 1.055	1.100 1.202	1.300 1.392	1.478 1.610	1.718 1.840	1.968 2.120	2.480 2.564	400	275
J	INTEGRAL FIRESLLEEVE SILICONE (5 MINUTES) /11/	.710 .760	.798 .862	.978 1.055	1.100 1.202	1.300 1.392	1.478 1.610	1.718 1.840	1.968 2.120	2.480 2.564	400	275
K	INTEGRAL ABRASION (BRAIDED) POLYESTER /8/	.468 .532	.598 .662	.808 .872	.888 .952	1.103 1.167	1.313 1.405	1.568 1.632	1.838 1.902	2.370 2.452	300	275
L	THIN WALL INTEGRAL FIRESLLEEVE SILICONE (5 MINUTES) /11/	.620 .717	.709 .827	.909 1.027	1.004 1.122	1.214 1.332	1.410 1.562	-	-	-	400	275
N	THIN WALL INTEGRAL FIRESLLEEVE SILICONE (15 MINUTES) /12/	.620 .717	.709 .827	.909 1.027	1.004 1.122	1.214 1.332	1.410 1.562	-	-	-	400	275

	AEROSPACE STANDARD	AS6997™ SHEET 5 OF 7	
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