

REV.
C

AS1737

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS1737C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

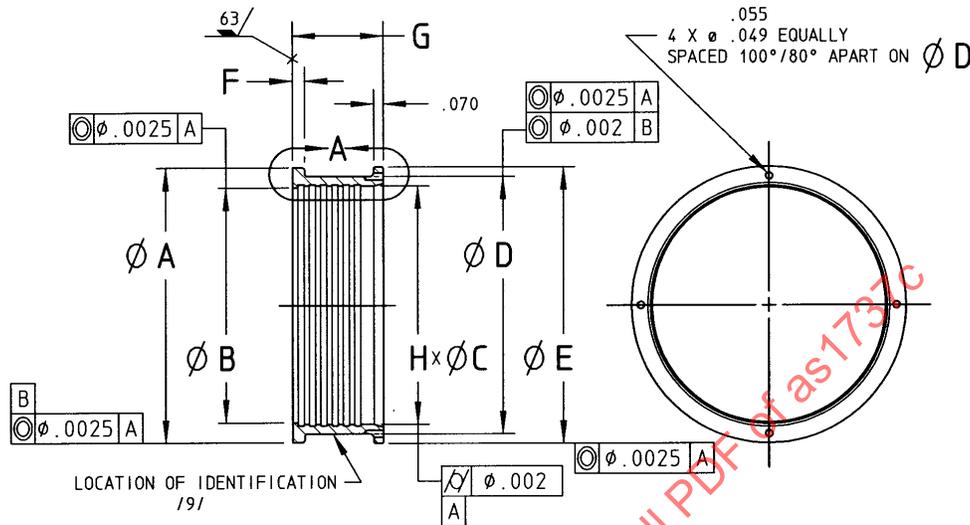
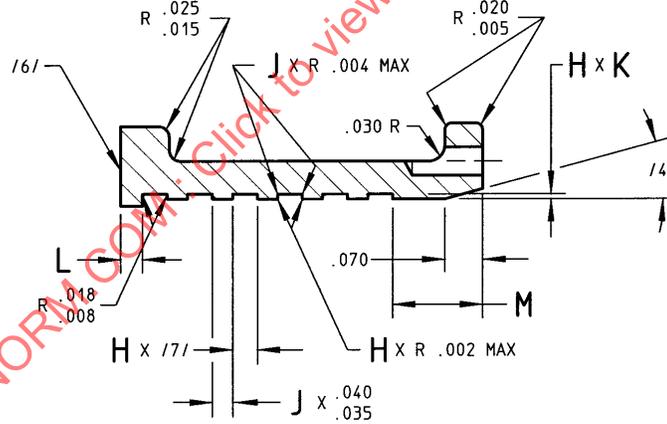


FIGURE 1 - FERRULE

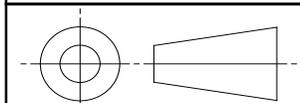


ENLARGED VIEW A

FIGURE 1 - FERRULE

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: /3/ AS1730



AEROSPACE STANDARD

FERRULE, COUPLING, RIGID, FIXED CAVITY
THREADED, FERRULE TYPE TUBE ENDS

AS1737
SHEET 1 OF 4

REV. C

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ISSUED 1984-01 REVISED 2009-05 REAFFIRMED 2015-01

TABLE 1 - FERRULE DIMENSIONS AND WEIGHTS

BASIC NO. AS1737 SIZE CODE /16/	(TUBE SIZE)	A +.005 -.000	B +.005 -.000	C	C TOL	D +.005 -.000	E +.000 -.008
04	.250	.513	.233	.254	+0.005/-0.000	.375	.515
05	.312	.566	.295	.316	+0.005/-0.000	.437	.577
06	.375	.621	.358	.379	+0.005/-0.000	.500	.640
08	.500	.746	.483	.504	+0.005/-0.000	.625	.765
10	.625	.884	.609	.630	+0.005/-0.000	.750	.890
12	.750	1.014	.734	.755	+0.005/-0.000	.890	1.030
16	1.000	1.263	.985	1.005	+0.005/-0.000	1.142	1.282
20	1.250	1.513	1.235	1.256	+0.005/-0.000	1.392	1.532
24	1.500	1.762	1.480	1.506	+0.005/-0.000	1.642	1.782
28	1.750	2.024	1.730	1.756	+0.005/-0.000	1.895	2.035
32	2.000	2.274	1.981	2.006	+0.005/-0.000	2.145	2.285
36	2.250	2.524	2.231	2.257	+0.005/-0.000	2.395	2.535
40	2.500	2.778	2.481	2.507	+0.005/-0.000	2.645	2.785
44	2.750	3.024	2.731	2.757	+0.005/-0.000	2.895	3.035
48	3.000	3.369	2.979	3.007	+0.005/-0.000	3.145	3.285
56	3.500	3.869	3.479	3.509	+0.005/-0.000	3.645	3.785
64	4.000	4.369	3.979	4.009	+0.005/-0.000	4.155	4.295
72	4.500	4.869	4.479	4.509	+0.006/-0.000	4.655	4.795
80	5.000	5.352	4.979	5.009	+0.006/-0.000	5.155	5.295

TABLE 1 CONTINUED - FERRULE DIMENSIONS AND WEIGHTS

BASIC NO. AS1737 SIZE CODE /16/	F +.010 -.000	G	H PLCS GROOVES	J PLCS LANDS	K DEPTH	K TOL	L ±.005	M +.020 -.010	ALUM WEIGHT LB/EA APPROX REF
04	.060	.585	5	4	.008	+0.002/-0.000	.040	.165	.005
05	.060	.585	5	4	.008	+0.002/-0.000	.040	.165	.005
06	.060	.585	5	4	.008	+0.002/-0.000	.040	.165	.006
08	.060	.585	5	4	.008	+0.002/-0.000	.040	.165	.008
10	.060	.585	5	4	.008	+0.002/-0.000	.040	.165	.009
12	.060	.585	5	4	.008	+0.002/-0.000	.040	.165	.012
16	.060	.585	5	4	.008	+0.002/-0.000	.040	.165	.016
20	.060	.585	5	4	.008	+0.002/-0.000	.040	.165	.020
24	.060	.670	6	5	.008	+0.002/-0.000	.040	.165	.026
28	.090	.670	6	5	.008	+0.002/-0.000	.040	.165	.032
32	.090	.670	6	5	.008	+0.002/-0.000	.040	.165	.036
36	.090	.670	6	5	.008	+0.002/-0.000	.040	.165	.040
40	.090	.670	6	5	.008	+0.002/-0.000	.040	.165	.045
44	.090	.670	6	5	.008	+0.002/-0.000	.040	.165	.049
48	.090	.670	6	5	.008	+0.002/-0.000	.040	.165	.058
56	.090	.670	6	5	.014	+0.002/-0.000	.040	.165	.065
64	.090	.670	5	4	.014	+0.002/-0.000	.080	.200	.075
72	.090	.823	7	6	.020	+0.004/-0.000	.080	.185	.099
80	.090	.823	7	6	.020	+0.004/-0.000	.080	.185	.108

NOTES:

1. MATERIAL CODE D:
 - a. ALUMINUM ALLOY 2014-T6 IN ACCORDANCE WITH AMS-QQ-A-225/4 OR AMS-QQ-A-200/2.
 - b. ALUMINUM ALLOY 2024-T6, T851 OR T8511 IN ACCORDANCE WITH AMS-QQ-A-225/6 OR AMS-QQ-A-200/3.
2. FINISH: MATERIAL CODE D: ANODIC COATING EXCEPT AS NOTED IN ACCORDANCE WITH MIL-A-8625, TYPE II, CLASS 2, COLOR MAGENTA. /6/
- /3/ PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST FOR PRI-QPL-AS1730 FOR THIS STANDARD. SEE www.eauditnet.com. FOR CURRENT QPL ON-LINE.
- /4/ SPECIFIC DIMENSIONS AND TOLERANCES ARE SPECIFIED AND CONTROLLED BY THE MANUFACTURER. THE MANUFACTURER IS RESPONSIBLE TO ENSURE COMPATIBILITY WITH THE ASSEMBLY AND COMPLIANCE WITH THE REQUIREMENTS IN AS1730.
5. DELETED.
- /6/ CHEMICAL CONVERSION COATING IN ACCORDANCE WITH MIL-DTL-5541, TYPE 1, CLASS 3 ON NOTED SURFACES.
- /7/ GROOVE WIDTH IS SPECIFIED AND CONTROLLED BY THE MANUFACTURER WITH VARIANCE BETWEEN GROOVE WIDTHS NOT EXCEEDING .015 in.
8. RATED OPERATING CHARACTERISTICS: SEE AS1730.
- /9/ IDENTIFICATION PER AS478 METHOD 30 INCLUDING THE MANUFACTURER'S NAME, TRADEMARK, OR CAGE CODE, COMPLETE "AS" PART NUMBER, AND DATE OF MANUFACTURE IN QUARTERS (3Q95 = THIRD QUARTER 1995). SIZES 12 AND SMALLER MAY BE INDIVIDUALLY PLACED IN A PLASTIC BAG WITH A TAG PER AS478 METHOD 35D CONTAINING THIS INFORMATION. ALL PARTS SHALL BE MARKED AS A MINIMUM WITH THE MANUFACTURER'S NAME, TRADEMARK OR CAGE CODE AND DATE OF MANUFACTURE.
10. THESE FERRULES ARE INTENDED FOR USE AS A COMPONENT OF BOTH THE TYPE I AND TYPE II RIGID COUPLING ASSEMBLIES AS DEFINED IN AS1731.
11. INTERPRETATION OF DRAWING PER ARP4296.
12. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 μ in Ra.
13. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
14. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.
15. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS \pm .010, ANGULAR DIMENSIONS \pm 2 DEGREES.

	AEROSPACE STANDARD	AS1737 SHEET 3 OF 4	REV. C
	FERRULE, COUPLING, RIGID, FIXED CAVITY THREADED, FERRULE TYPE TUBE ENDS		