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REV.
C

AS81914™/5

FEDERAL SUPPLY CLASS
5975

RATIONALE

LIMITED SCOPE REVISION IS REQUIRED TO CHANGE THE SPECIFIC GRAVITY REQUIREMENT IN TABLE 3 FROM 1.70 MAX TO 1.88 MAX AND TO CHANGE THE CRUSH RESISTANCE METRIC EQUIVALENT VALUE FROM 4.54 KG TO 5.44 KG. FEDERAL SUPPLY CLASS ALSO UPDATED.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81914.

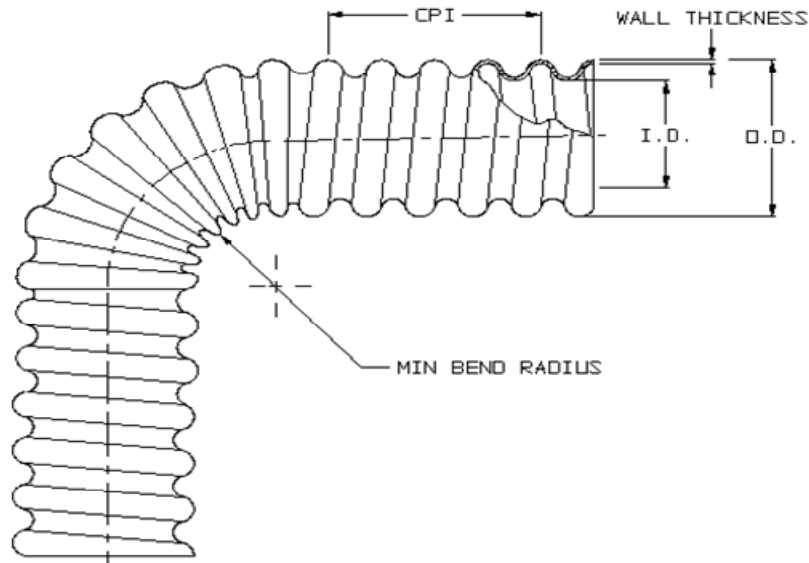
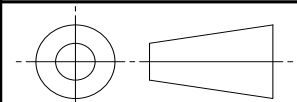


FIGURE 1 - DIMENSIONS AND CONFIGURATION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS81914/5C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS81914



AEROSPACE STANDARD

TUBING, PLASTIC, EXTRA FLEXIBLE, CONVOLUTED,
HELICAL, ETHYLENE TETRAFLUOROETHYLENE
(ETFE), CLOSE CONVOLUTION

AS81914™/5
SHEET 1 OF 3

REV.
C

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TABLE 1 - FIGURE 1 DIMENSIONS

DASH NUMBER	MAX INSIDE DIA (ID)	MIN INSIDE DIA (ID)	MAX OUTER DIA (OD)	MAX WALL THICKNESS	CONVOLUTIONS PER INCH (CPI) ± 1	APPROX. WEIGHT LB (KG) PER 100 FEET (30.5 M) REF	MIN BEND RADIUS
01	.188 (4.78)	.181 (4.60)	.320 (8.13)	.018 (0.46)	10	1.4 (0.64)	.31 (7.9)
02	.281 (7.14)	.273 (6.93)	.414 (10.52)	.018 (0.46)	10	1.6 (0.72)	.41 (10.4)
03	.312 (7.92)	.306 (7.77)	.450 (11.43)	.018 (0.46)	10	1.7 (0.77)	.41 (10.4)
04	.375 (9.53)	.359 (9.12)	.510 (12.95)	.018 (0.46)	10	2.0 (0.91)	.50 (12.7)
05	.437 (11.10)	.427 (10.85)	.571 (14.50)	.018 (0.46)	10	3.1 (1.41)	.50 (12.7)
06	.500 (12.70)	.480 (12.19)	.650 (16.51)	.023 (0.58)	9	3.7 (1.68)	.75 (19.1)
07	.625 (15.88)	.603 (15.32)	.770 (19.56)	.023 (0.58)	9	4.4 (1.99)	.75 (19.1)
08	.750 (19.05)	.725 (18.42)	.930 (23.62)	.023 (0.58)	8	5.6 (2.54)	.93 (23.6)
09	.875 (22.23)	.860 (21.84)	1.073 (27.25)	.023 (0.58)	7	7.1 (3.22)	1.25 (31.8)
10	1.000 (25.40)	.970 (24.64)	1.226 (31.14)	.023 (0.58)	7	7.6 (3.45)	1.25 (31.8)
11	1.125 (28.58)	1.105 (28.07)	1.390 (35.31)	.023 (0.58)	7	8.4 (3.81)	1.43 (36.3)
12	1.250 (31.75)	1.205 (30.61)	1.539 (39.09)	.023 (0.58)	6	9.0 (4.08)	1.43 (36.3)
13	1.500 (38.10)	1.437 (36.50)	1.832 (46.53)	.023 (0.58)	5	9.6 (4.35)	1.75 (44.5)
14	1.750 (44.45)	1.688 (42.88)	2.082 (52.88)	.023 (0.58)	5	10.7 (4.85)	2.00 (50.8)
15	2.000 (50.80)	1.937 (49.20)	2.332 (59.23)	.023 (0.58)	5	12.4 (5.62)	2.25 (57.2)

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE: .XX = $\pm .010$ (0.25 MM), .XXX = $\pm .005$ (0.13 MM).
3. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON 25.4 MM = 1 INCH.
4. METRIC DIMENSIONS IN PARENTHESES ARE SHOWN IN MILLIMETERS.

REQUIREMENTS:

1. DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE 1
2. CONVOLUTION TYPE: HELICAL, CLOSE CONVOLUTION (CLASS 0).
3. LENGTHS SHALL BE SPECIFIED IN FEET BY THE PROCURING ACTIVITY AND DOES NOT FORM A PART OF THE IDENTIFYING PART NUMBER. MINIMUM ORDER LENGTH SHALL BE 3 FEET (0.914 M) AND THE TUBING ORDER LENGTH TOLERANCES SHALL BE AS SPECIFIED IN TABLE 2. TUBING SHALL BE PROCURED AS COILS.

TABLE 2 - ORDER LENGTH TOLERANCE

ORDER LENGTH RANGE	
LENGTH IN FEET (METERS)	TOLERANCE IN INCHES (MM)
3-12 (0.914 M-3.66 M)	+2.0/-0.0 (+50.8 MM/-0.0 MM)
13-50 (3.96 M-15.24 M)	+4.0/-0.0 (+101.6 MM/-0.0 MM)
51 AND UP (15.55 M AND UP)	+6.0/-0.0 (+152.4 MM/-0.0 MM)

	AEROSPACE STANDARD	AS81914™/5 SHEET 2 OF 3	REV. C 
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