

REV.
C

AS81914™/3

FEDERAL SUPPLY CLASS
9330

RATIONALE

REVISION IS REQUIRED TO CORRECT THE PART NUMBER EXAMPLE.

NOTICE

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

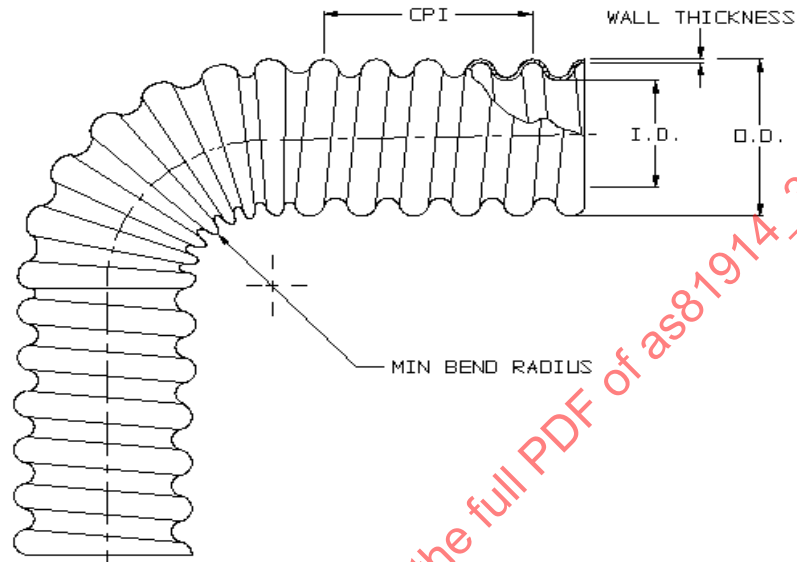
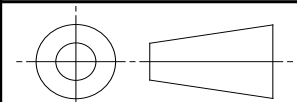


FIGURE 1 - DIMENSIONS AND CONFIGURATION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS81914/3C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS81914



AEROSPACE STANDARD

TUBING, PLASTIC, FLEXIBLE, CONVOLUTED, HELICAL
 FLUORINATED ETHYLENE PROPYLENE (FEP)
 STANDARD CONVOLUTION

AS81914™/3
 SHEET 1 OF 3

REV.
C

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) | 8 | 1.5 (0.67) | .500 (12.70) |
| 02 | .281 (7.14) | .273 (6.93) | .414 (10.52) | .018 (0.46) | 8 | 1.7 (0.77) | .750 (19.05) |
| 03 | .312 (7.92) | .306 (7.77) | .450 (11.43) | .018 (0.46) | 8 | 1.9 (0.86) | .750 (19.05) |
| 04 | .375 (9.53) | .364 (9.25) | .510 (12.95) | .018 (0.46) | 8 | 2.2 (1.00) | .875 (22.23) |
| 05 | .437 (11.10) | .427 (10.85) | .571 (14.50) | .018 (0.46) | 8 | 3.1 (1.41) | .875 (22.23) |
| 06 | .500 (12.70) | .485 (12.32) | .650 (16.51) | .023 (0.58) | 7 | 4.0 (1.81) | 1.250 (31.75) |
| 07 | .625 (15.88) | .608 (15.44) | .770 (19.56) | .023 (0.58) | 7 | 4.8 (2.18) | 1.500 (38.18) |
| 08 | .750 (19.05) | .730 (18.54) | .930 (23.62) | .023 (0.58) | 6 | 6.1 (2.77) | 1.750 (44.45) |
| 09 | .875 (22.23) | .860 (21.84) | 1.073 (27.25) | .023 (0.58) | 5 | 7.0 (3.18) | 2.000 (50.80) |
| 10 | 1.000 (25.40) | .975 (24.77) | 1.226 (31.14) | .023 (0.58) | 5 | 8.5 (3.86) | 2.375 (60.33) |
| 11 | 1.125 (28.58) | 1.105 (28.07) | 1.390 (35.31) | .023 (0.58) | 5 | 9.3 (4.22) | 2.375 (60.33) |
| 12 | 1.250 (31.75) | 1.210 (30.73) | 1.539 (39.09) | .023 (0.58) | 4 | 10.9 (4.94) | 2.750 (69.85) |
| 13 | 1.500 (38.10) | 1.437 (36.50) | 1.832 (46.53) | .023 (0.58) | 4 | 12.6 (5.72) | 3.375 (85.73) |
| 14 | 1.750 (44.45) | 1.688 (42.88) | 2.082 (52.88) | .023 (0.58) | 4 | 14.8 (6.71) | 3.875 (98.43) |
| 15 | 2.000 (50.80) | 1.937 (49.20) | 2.332 (59.23) | .023 (0.58) | 4 | 16.8 (7.62) | 4.250 (107.95) |

NOTES

1. DIMENSIONS ARE IN INCHES.
2. UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE: .XX = ±.010 (0.25 MM), .XXX = ±.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.
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 (M) | TOLERANCE IN INCHES (MM) |
| 3-12 (0.914-3.66) | +2.0/-0.0 (+50.8/-0.0) |
| 13-50 (3.96-15.24) | +4.0/-0.0 (+101.6/-0.0) |
| 51 AND UP (15.55 AND UP) | +6.0/-0.0 (+152.4/-0.0) |