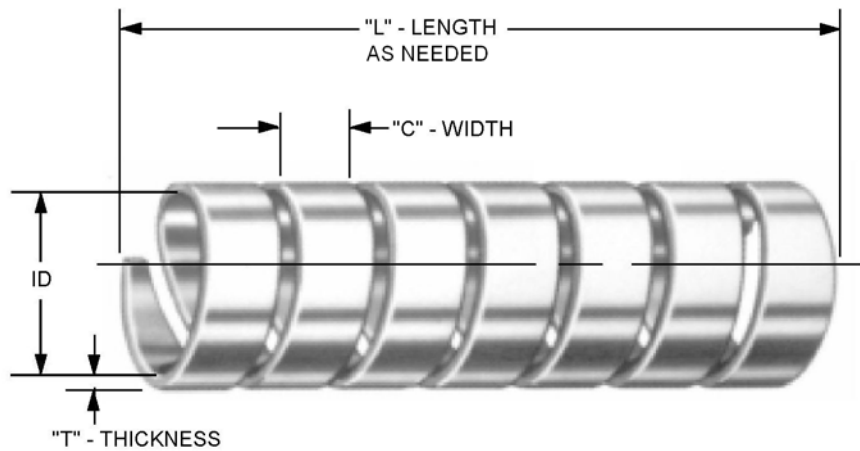


REVISIONS																		
LTR	DESCRIPTION								DATE				APPROVED					
A	Change CAGE code from 037Z3 to 16236 and e-mail address for comments. Removed approved sources requirements.								4 June 2008				A. Abdouni					
Prepared in accordance with ASME Y14.100																		
Detail Drawing																		
REV																		
PAGE																		
REV STATUS	REV	A	A	A	A	A	A	A	A	A								
OF PAGES	PAGE	1	2	3	4	5	6	7	8									
PMIC N/A		PREPARED BY William Carpenter							DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OHIO 43218-3990									
Original date of drawing 29 January 2008		CHECKED BY Ernest Brown							TITLE HOSE ASSEMBLY, ABRASION GUARDS, PROTECTIVE COILS, AND SLEEVES									
		APPROVED BY Abdo Abdouni																
		SIZE A	CAGE CODE 16236						DWG. NO. 08002									
		REV A						PAGE 1				OF		8				



Plastic sleeve dash number	Sleeve ID (ref) inches (mm)	C width (ref)	T thickness (ref) inches (mm)
P04	.236 (5.99)	.256 (6.50)	.059 (1.50)
P06	.374 (9.50)	.256 (6.50)	.059 (1.50)
P08	.492 (12.50)	.394 (10.01)	.069 (1.75)
P10	.630 (16.00)	.394 (10.01)	.079 (2.01)
P12	.827 (21.01)	.394 (10.01)	.079 (2.01)
P16	1.063 (27.00)	.630 (16.00)	.098 (2.49)
P22	1.339 (34.01)	.630 (16.00)	.118 (3.00)
P30	1.575 (40.01)	.630 (16.00)	.118 (3.00)
P48	3.110 (78.99)	1.417 (35.99)	.216 (5.49)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.

FIGURE 1. Plastic protective coil sleeve.

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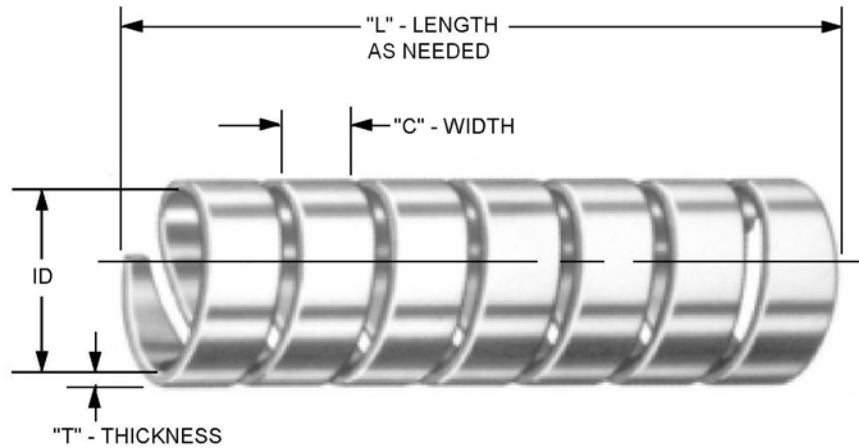
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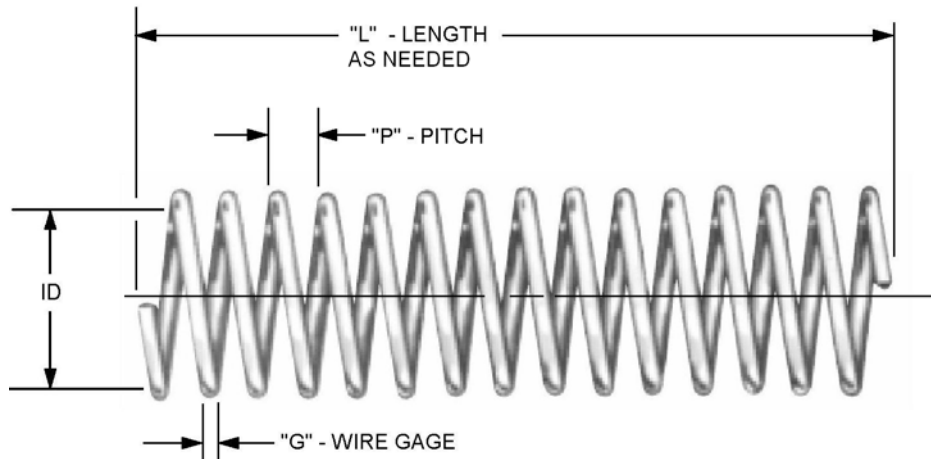
Protective coil sleeve dash number	Coil ID (ref.) inches (mm)	C width (ref.) inches (mm)	T Thickness (ref.) inches (mm)
C01	.444 (11.28)	.25 (6.4)	.0329 (.836)
C02	.500 (12.70)	.25 (6.4)	.0329 (.836)
C03	.570 (14.48)	.25 (6.4)	.0329 (.836)
C04	.625 (15.88)	.25 (6.4)	.0329 (.836)
C05	.750 (19.05)	.25 (6.4)	.0329 (.836)
C06	.875 (22.23)	.25 (6.4)	.0329 (.836)
C07	1.031 (26.19)	.50 (12.7)	.0343 (.871)
C08	1.125 (28.58)	.50 (12.7)	.0343 (.871)
C09	1.219 (30.96)	.50 (12.7)	.0343 (.871)
C10	1.469 (37.31)	.50 (12.7)	.0343 (.871)
C11	1.688 (42.88)	.50 (12.7)	.0343 (.871)
C12	1.906 (48.41)	.50 (12.7)	.0343 (.871)
C13	2.000 (50.80)	.50 (12.7)	.0350 (.889)
C14	2.125 (53.98)	.50 (12.7)	.0350 (.889)
C15	2.526 (64.16)	.50 (12.7)	.0350 (.889)
C16	2.750 (69.85)	.50 (12.7)	.0350 (.889)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. This coil should fit snug to the hose OD. Coil may need to be unwound for proper installation.

FIGURE 2. Steel protective coil sleeve.

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Steel protective coil spring dash number	Coil sleeve ID (ref.) inches (mm)	G wire gage (ref.)	P pitch (ref.) inches
S01	.61 (15.49)	.08 (2.03)	.20 (5.08)
S02	.67 (17.02)	.08 (2.03)	.20 (5.08)
S03	.75 (19.05)	.08 (2.03)	.20 (5.08)
S04	.80 (20.32)	.08 (2.03)	.12 (3.05)
S05	.84 (21.34)	.08 (2.03)	.20 (5.08)
S06	.91 (23.11)	.08 (2.03)	.22 (5.59)
S07	1.04 (26.42)	.08 (2.03)	.22 (5.59)
S08	1.18 (29.97)	.10 (2.54)	.26 (6.60)
S09	1.34 (34.04)	.10 (2.54)	.34 (8.64)
S10	1.66 (42.16)	.10 (2.54)	.34 (8.64)
S11	1.87 (47.50)	.12 (3.05)	.38 (9.65)
S12	2.12 (53.85)	.10 (2.54)	.38 (9.65)
S13	2.38 (60.45)	.12 (3.05)	.38 (9.65)
S14	2.88 (73.15)	.12 (3.05)	.38 (9.65)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. This coil should fit snug to the hose OD. Coil may need to be unwound for proper installation.
4. Length to be specified on contract or purchase order.

FIGURE 3. Protective coil spring.

SCOPE

Scope. This drawing outlines the requirements for hose assembly protective coils and springs.

Qualification inspection. Qualification inspection for protective coils and springs specified herein shall not be required.

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REQUIREMENTS

Design configuration. The design, construction, and physical dimensions shall be as specified on figures 1 through 3.

Plastic coil protective sleeve.

Field attachable. The plastic coil protective sleeve, see figure 1, is field attachable.

Fluid resistance. The plastic protective coil sleeve shall be unaffected by air, water, oil, gasoline, and hydraulic fluids.

Operating temperature range. The temperature range shall be 0°F to 180°F (-18°C to 82°C) or better.

Color. Color shall be black.

Additional use. The plastic coil sleeve may be used for individual hose protection or group bundling of hose lines.

Table I specifies the number of feet that is required for wrapping a hose. This is for guidance only in ordering the approximate length, in feet and inches, to wrap a hose or hose bundle.

TABLE I. Wrap ID size to feet in wrap.

ID wrap size	Feet in wrap
P10 (1/2" wrap)	100 feet
to wrap 3/4" dia.	66' 7"
to wrap 1" dia.	50' 0"
P12 (3/4" wrap)	100 feet
to wrap 1" dia.	75' 0"
to wrap 1 1/4" dia.	60' 0"
to wrap 1 1/2" dia.	50' 0"
P16 (1" wrap)	100 feet
to wrap 1 1/4" dia.	80' 0"
to wrap 1 1/2" dia.	66' 7"
to wrap 1 3/4" dia.	57' 1"
to wrap 2" dia.	50' 0"
P22 (1 1/4 " wrap)	100 feet
to wrap 1 1/2" dia.	83' 3"
to wrap 1 3/4" dia.	71' 5"
to wrap 2" dia.	62' 6"
to wrap 2 1/4" dia.	55' 6"
to wrap 2 1/2" dia.	50' 0"
P30 (1 1/2" wrap)	100 feet
to wrap 1 3/4" dia.	85' 8"
to wrap 2" dia.	75' 0"
to wrap 2 1/4" dia.	66' 7"
to wrap 2 1/2" dia.	60' 0"
to wrap 2 3/4" dia.	54' 6"
to wrap 3" dia.	50' 0"

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TABLE I. Wrap ID size to feet in wrap - Continued.

ID wrap size	Feet in wrap
P48 (3" wrap)	50 feet
to wrap 3 1/2 " dia.	42' 9"
to wrap 4" dia.	37' 6"
to wrap 4 1/2" dia.	33' 4"
to wrap 5" dia.	30' 0"
to wrap 5 1/2" dia.	27' 3"
to wrap 6" dia.	25' 0"

The plastic coil protective sleeve may be assembled to the hose after hose has been assembled or after installation on equipment. All other accessories to this drawing are assembled to the hose assemblies prior to attaching the second connector to the hose.

Normal package lengths from the manufactures are specified in table II.

TABLE II. Normal packaged "boxed" lengths.

Plastic sleeve dash number	Boxed length in feet
P04	100, 50, 20
P06	100, 50, 20
P08	100, 50, 20
P10	100, 50, 20
P12	100, 50, 20
P16	100, 50, 20
P22	100, 50, 20
P30	50, 20
P48	50, 20

All the coils supplied to this drawing shall be free from seams, pits, die scratches, slivers, burrs, sharp edges, or other defects that may service life.

Materials:

Coil flat (see figure 2): Steel in accordance with American Iron and Steel Institute (AISI) 1035 hard tempered pre-galvanized strip or steel in accordance with AISI 1008, AISI 1009, or ANSI 1010 hard tempered, pre-galvanized (see table III).

TABLE III. Coil sleeve material designators.

Designator	AISI material
A <u>1</u> /	1035
B	1008, 1009, or 1010

1/ Manufacturers standard material.

Coil flat finish: Zinc or cadmium plated, see table IV for finish designators.

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TABLE IV. Coil sleeve finish designators.

Designator	Finish
Z	Zinc
C	Cadmium

Cadmium is not recommended. To the users of this document, it is recommended that the use of carbon steel material with cadmium plating be used only when zinc specified in this document cannot meet performance requirements.

Spring round (see figure 3). Commercial steel wire hard draw in accordance with ASTM A227/A227M.

Spring round finish: Zinc or no finish, see table V. Zinc finish shall be in accordance with ASTM A764, coating class, regular, coating finish 2, coating type B, and tensile class I.

TABLE V. Spring round finish designators.

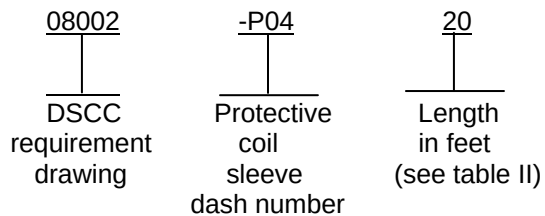
Designator	Finish
N	None
Z	Zinc

Protective coil and spring lengths: Coils and springs should be cut to overall assembly length minus the sum of the overall length of each end fitting. One end fitting is mounted prior to installing protecting coil or spring onto hose assembly.

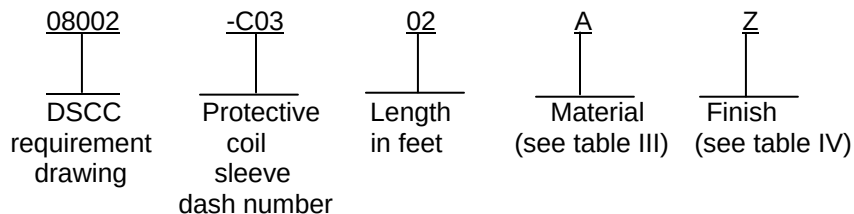
Marking: The Part or Identifying Number (PIN) shall be marked on the package in accordance with MIL-STD-1285. The marking shall include the complete DSCC PIN, manufacturer's name or CAGE code, and date code.

The PIN's shall be constructed using the following formats:

Plastic coil sleeve:



Steel coil sleeve:



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Steel spring:

<u>08002</u>	<u>-S03</u>	<u>02</u>	<u>N</u>
DSCC	Protective	Length	Finish
requirement	spring	in feet	(see table V)
drawing	dash number		

PACKAGING

Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order. When packaging of material is to be performed by DoD or in-house contractor personnel, these personnel need to contact the responsible packaging activity to ascertain packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activities within the Military Service or Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

DSCC drawing use. Hose accessories in accordance to this drawing are intended for use when military specifications do not exist and qualified military connectors that will perform the required function are not available for OEM application. This drawing is intended exclusively to prevent the proliferation of unnecessary duplicate specifications, drawings, and stock catalog listings.

Acquisition requirements. Acquisition documents should specify the following:

- Complete PIN.
- Requirements for certificate of compliance, if applicable.
- Requirements for notification of change of product or process to contracting activity, if applicable.
- Packaging requirements.

Comments. Comments on this drawing should be directed to Defense Supply Center, Columbus, ATTN: DSCC-VAI, P.O. Box 3990 Columbus, Ohio 43218-3990 or telephone (614) 692-0565, facsimile (614) 692-6940 or emailed to FluidFlow@dla.mil.

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