



DEFENSE LOGISTICS AGENCY
LAND AND MARITIME
P.O. BOX 3990
COLUMBUS, OHIO 43218-3990

January 27, 2016

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: **This is a 2nd coordination of an ID due to new information:**

Initial Drafts of Revisions to: CAGE Code 037Z3, Detailed Drawings 89015E, 89017D, and 89019E.

Project Number(s): 5935-2016-E01, E02, and E03

These initial drafts for these subject documents are now available for viewing and downloading from the DLA Land and Maritime-VA Web site:

<http://www.landandmaritime.dla.mil/programs/milspec/>

Major changes to these documents include **Update to “Sources of Documents (in Red) and addition of related NSN’s (in Red)**, updates to Title Block Headings, Associated Documents, Vendor Information, and incorporation of dated ‘Notices of Revision’. Material Numbers for these items have not been identified. However, vendor part numbers for specific configurations that are available from your firm should be listed on the enclosed Certificates of Compliance (CoC). See the attached examples of a DLA Part or Identifying Number (PIN) on each of the 3 (three) partially filled out (fillable) CoC forms (attached).

Please return comments to this Center no later than close of business 30 days from the date of the letter. Any further coordination concerning these documents will be circulated only to firms and organizations that furnish comments or reply that they have an interest. Since Navy-EC is the custodian for this document, all Navy review activities should forward their comments directly to this DLA Center.

Manufacturers desiring to be listed as a source of supply, which meet the requirements of these drawings, are requested to complete and submit (to the address shown below) updated versions of the enclosed Certificates of Compliance (CoC) along with any comments, on each of the 3 (three) subject drawings. **These CoC’s must be signed by an ‘Officer’ of the company (Vice President, Production Manager, etc.). “Joslyn Sunbank Company, LLC” has already responded and does not need to comply, in order to remain on the drawings as an approved source of supply.**

If these documents are of interest to you, please provide your comments or suggested changes. The point of contact for these documents is Mr. Jenkins, phone number 614-692-0560, facsimile transmission, 614-692-6939, e-mail Howard.E.Jenkins@dla.mil, or may be mailed via the US Postal Service to DLA LAND AND MARITIME, ATTN: VAI (Attention: Howard Jenkins), P.O. Box 3990, Columbus, OH 43218-3990.

SUBJECT: This is a 2nd coordination of an ID due to new information:
Initial Drafts of Revisions to: CAGE Code 037Z3, Detailed Drawings 89015E,
89017D, and 89019E.
Project Number(s): 5935-2016-E01, E02, and E03 - continued.

Attachments:

3 (CoC)
3 (Initial Draft Drawings)

Sincerely,

/ SIGNED /

ABDONASSER M. ABDOUNI
Chief,
Interconnection Branch

cc:

DLA:
LSA (Land and Maritime)

MILITARY: (Related Documents: MIL-DTL-38999 & SAE AS85049)
Air Force – 85, 19, 99 (Brad Steiner)
Navy – AS, EC, MC, SH, OS (Dwight Tabit)
Army – CR, AR, MI (George Tanner)
Missile Defense Agency – MDA (Barry Birdsong)

INDUSTRY:

89015: TE Connectivity (Frank Hungate), Glenair (Bea Martin),
Joslyn Sunbank (Vikki Gilman), Electro Adapter (Jim Alderson).
89017: TE Connectivity (Frank Hungate), Glenair (Bea Martin),
Joslyn Sunbank (Vikki Gilman), Electro Adapter (Jim Alderson),
J-Tech (Bobbie Gentile).
89019: TE Connectivity (Frank Hungate), Glenair (Bea Martin),
Joslyn Sunbank (Vikki Gilman), Electro Adapter (Jim Alderson).

Distribution List:

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msarmstr@TE.com; dwight.tabit@navy.mil; george.a.tanner.civ@mail.mil;

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	Add source 06090.	28 Feb 91	Richard Marbais
B	Add dimension "Z". Editorial changes throughout.	22 Sept 93	Randy Larson
C	Update format. Correcting references. Correcting address list of sources.	16 July 02	Robert Heber
D	Update title block, associated documents, vendor information. On page 2, figure 1: relocate "W" diameter leaders to show inside dimension of braid, not outside dimension.	DRAFT	

CURRENT DESIGN ACTIVITY CAGE CODE 037Z3 HAS CHANGED NAMES TO: DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990
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Prepared in accordance with ASME Y14.100

REV	D	D	D	D	D	D											
PAGE	1	2	3	5	6	7											
REV STATUS OF PAGES	REV	D	D	D	C	D	D	D									
	PAGE	1	2	3	4	5	6	7									

PMIC N/A	PREPARED BY Jeffery Tunstall	DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OHIO 43216-5000	
Original date of drawing 25 Sept 89	CHECKED BY Abdo Abdouni	TITLE CONNECTOR ACCESSORIES, ELECTRICAL, ADAPTER, SHRINK BOOT, RFI / EMI, 45°, CATEGORY 3C, FOR MIL-DTL-83723 SERIES III, SAE-AS50151 (SAE-AS34001 AND AS34501), SAE-AS81703 SERIES III, AND MIL-DTL-26482 SERIES II	
	APPROVED BY Robert Heber		
	SIZE A	CAGE CODE 037Z3	DWG. NO. 89017
	REV D	PAGE 1	OF 7

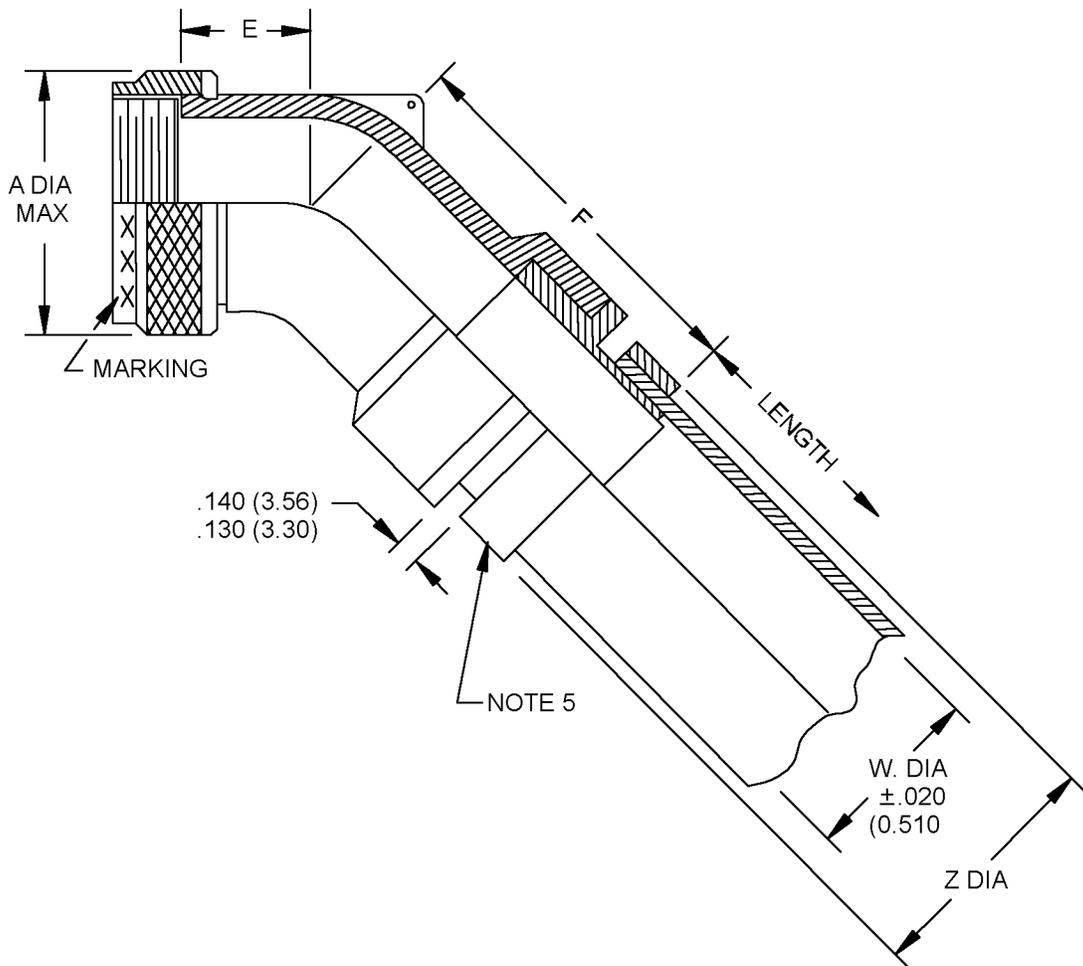


FIGURE 1. Dimensions and configuration.

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH 43216-5000	SIZE A	CAGE CODE 037Z3	DWG NO. 89017
		REV D	PAGE 2

Dash number	For connector shell size (ref)			A max dia	E max	F max	Max cable accommodation range
	SAE-AS81703 series III	MIL-DTL-26482 series II and MIL-DTL-83723 series III	SAE-AS50151 crimp				
-03	3	---	---	.669 (16.99)	.750 (19.05)	1.710 (43.43)	01
-08	---	8	8s	.617 (15.67)	.750 (19.05)	1.710 (43.43)	01
-10	---	10	10S 10SL	.734 (18.64)	.770 (19.56)	1.770 (44.96)	03
-12	7	12	12S 12	.858 (21.79)	.800 (20.32)	1.830 (46.48)	05
-14	12	14	14S 14	.984 (24.99)	.820 (20.83)	1.920 (48.79)	06
-16	19	16	16s 16	1.112 (28.24)	.840 (21.34)	2.030 (51.56)	08
-18	27	18	18	1.218 (30.94)	.926 (23.52)	2.220 (56.83)	09
-20	37	20	20	1.345 (34.16)	.926 (23.52)	2.220 (56.83)	11
-22	---	22	22	1.468 (37.29)	1.020 (25.91)	2.370 (60.20)	13
-24	---	24	24	1.593 (40.46)	1.020 (25.91)	2.370 (60.20)	14
-28	---	---	28	1.969 (50.01)	1.145 (29.08)	2.420 (61.40)	16
-32	---	---	32	2.219 (56.36)	1.207 (30.66)	2.520 (64.01)	18
-36	---	---	36	2.469 (62.71)	1.238 (31.44)	2.610 (66.29)	19
-40	---	---	40	2.719 (69.06)	2.031 (51.59)	2.750 (69.85)	21
-44	---	---	44	2.969 (74.41)	2.031 (51.59)	2.880 (73.15)	23
-48	---	---	48	3.219 (81.76)	2.031 (51.59)	3.000 (76.20)	25
-61	61	---	---	1.653 (41.99)	1.063 (27.00)	2.450 (62.23)	14

FIGURE 1. Dimensions and configuration – Continued.

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH 43216-5000	SIZE	CAGE CODE	DWG NO.
	A	037Z3	89017
		REV D	PAGE 3

Cable accommodation range	W dia ± .020 (0.51)	Z dia	
		Min	Max
01	.250 (6.35)	.425 (10.80)	.560 (14.22)
02	.312 (7.92)	.487 (12.37)	.630 (16.00)
03	.375 (9.53)	.550 (13.97)	.690 (17.53)
04	.438 (11.13)	.613 (15.57)	.750 (19.05)
05	.500 (12.70)	.675 (17.15)	.820 (20.83)
06	.562 (14.27)	.737 (18.72)	.890 (22.61)
07	.625 (15.88)	.800 (20.32)	.950 (24.13)
08	.688 (17.48)	.863 (21.92)	1.020 (25.91)
09	.750 (19.05)	.925 (23.50)	1.120 (28.45)
10	.812 (20.62)	.987 (25.07)	1.200 (30.48)
11	.875 (22.23)	1.050 (26.67)	1.270 (32.26)
12	.938 (23.83)	1.090 (27.69)	1.260 (32.00)

Cable accommodation range	W dia ± .020 (0.51)	Z dia	
		Min	Max
14	1.125 (28.58)	1.300 (33.02)	1.470 (37.34)
15	1.250 (31.75)	1.425 (36.20)	1.600 (40.64)
16	1.375 (34.93)	1.550 (39.37)	1.710 (43.43)
17	1.500 (38.10)	1.675 (42.55)	1.840 (46.74)
18	1.625 (41.28)	1.800 (45.72)	2.000 (50.80)
19	1.750 (44.45)	1.925 (48.90)	2.120 (53.85)
20	1.875 (47.63)	2.050 (52.07)	2.270 (57.65)
21	2.000 (50.80)	2.175 (55.25)	2.440 (61.98)
22	2.125 (53.98)	2.300 (58.42)	2.600 (66.04)
23	2.250 (57.15)	2.425 (61.60)	2.750 (69.85)
24	2.375 (60.33)	2.550 (64.77)	2.900 (73.66)
25	2.500 (63.50)	2.675 (67.95)	3.06 (77.72)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are for information only.
3. Metric equivalents are in parentheses.
4. Dimensions apply after plating.
5. Shield termination method optional.

FIGURE 1. Dimensions and configuration – Continued.

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH 43216-5000	SIZE	CAGE CODE	DWG NO.
	A	037Z3	89017
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REQUIREMENTS: Shall be in accordance with SAE-AS85049, category 3C.

Design and construction: See figure 1.

Interface dimensions shall conform to SAE-AS85049.

Pull test: With backshell suitably clamped, the braid shall withstand a tensile load of 150 pounds without movement of the braid or clamping device.

Electrical resistance: When measured with a 4-terminal bridge at room temperature, the resistance will not exceed 1 milliohm. The measurement being taken shall be from a point on the braid within 1 inch of the adapter and a point the body of the adapter.

Thermal aging: After being subjected to a temperature of 150°C for 168 hours, the electrical resistance, measured as above, will not exceed 1 milliohm.

Material and finish:

Accessory components shall be as shown in table I.

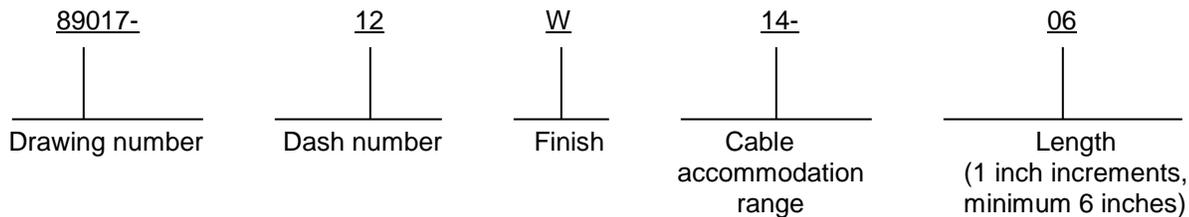
TABLE I. Material and finish.

Components	Material	Finish
All metal parts	Aluminum alloy in accordance with SAE-AS85049	See SAE-AS85049 N, <u>1/</u> W <u>2/</u>
Braided shield	Copper	Tin

1/ N is Electroless nickel - In accordance with AMS2404. -65 to +200 °C (Not for Navy use) (For space application only).

2/ W is Cadmium - Olive drab over suitable underplate, 1,000 hour salt spray -65 to +175 °C (W finish is not for use in space application)

Part or Identifying Number (PIN): The PIN shall be in accordance with the following:



Marking: Marking shall be in accordance with SAE-AS85049 except the PIN shall be stated above.

Application: Use to adapt SAE AS85049/140 and SAE-AS85049/141 type shrink boots.

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH 43216-5000	SIZE	CAGE CODE	DWG NO.
	A	037Z3	89017
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QUALIFICATION

Qualification inspection: Qualification inspection for the backshells specified herein shall not be required.

Quality conformance inspection: Shall be in accordance with SAE-AS85049.

Inspection of packaging: Shall be in accordance with SAE-AS85049.

Method of inspection: Method of inspection shall be in accordance with SAE-AS85049.

SOURCE OF DOCUMENTS:

ASME INTERNATIONAL

ASME Y14.100 - Engineering Drawing and Related Documentation Practices

(Copies of this document are available online at <https://www.asme.org>.)

DEPARTMENT OF DEFENSE SPECIFICATIONS

MIL-DTL-26482 - Connectors, Electrical, Circular, Miniature, High Density, Quick Disconnect (Bayonet, Threaded, or Breech Coupling), Environment Resistant with Crimp Removable Contacts or Hermetically Sealed with Fixed, Solderable Contacts General Specification for
MIL-DTL-83723 - Connectors, Electrical, (Circular, Environment Resisting), Receptacles and Plugs, General Specification for

(Copies of these documents are available online at <http://quicksearch.dla.mil>.)

SAE INTERNATIONAL

SAE-AMS2404 - Nickel, Electroless, Plating
SAE-AS34001 - Connectors, Receptacle, Electric, Wall Mounting, Front Release, Crimp Contact, AN Type
SAE-AS34501 - Connectors, Receptacle, Electrical, Wall Mounting, Rear Release, Crimp Contact, AN Type
SAE-AS50151 - Connectors, Electrical, Circular Threaded, AN Type, General Specification for
SAE-AS81703 - Connectors, Electric, Circular, Miniature, Rack and Panel or Push-Pull Coupling, Environment Resisting
SAE-AS85049 - Connector Accessories, Electrical, General Specification for
SAE-AS85049/140 - Connector Accessories, Electrical Boots, Heat-Shrinkable, Straight, Category 9
SAE-AS85049/141 - Connector Accessories, Electrical Boots, Heat-Shrinkable, 90 Degrees, Category 9

(Copies of these documents are available online at <http://standards.sae.org>.)

COMMENTS:

Comments on this drawing should be directed to DLA Land and Maritime - VAI, Post Office Box 3990, Columbus, Ohio 43218-3990 or telephone (614) 692-7702, facsimile (614) 692-6939, or submit comments by email to CircularConnector@dla.mil.

CERTIFICATE OF COMPLIANCE

The certificate of compliance (CoC) submitted to DLA Land and Maritime - VAI, prior to listing as an approved source of supply, shall state that the manufacturer's product meets the requirements stated herein.

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH 43216-5000	SIZE	CAGE CODE	DWG NO.
	A	037Z3	89017
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Approved sources of supply. Approved sources of supply are listed herein. Additional sources will be added as they become available. The vendors listed herein have agreed to this drawing and a certificated of compliance has been submitted to DLA Land and Maritime -VAI.

DLA drawing PIN 1/	CAGE codes					Material number
	06324	07418	31461	06090	OBW78	
89017-xxxx-xx	319AB001	S1735- xxxxA-xx-xx	E5432Axxxx xx55	TXR54AX45- xxxA12J	JT100-B- XXXXXX	5935-00-260-1632

1/ Parts must be purchased to this DLA PIN to assure that all performance requirements and tests are met. See 'Part or Identifying Number (PIN)' format on Page 5.

<u>Vendor CAGE number</u>	<u>Vendor name and address</u>
06090	Tyco/Electronics Corporation 501 Oakside Ave Side Redwood City, CA 94063-3800
06324	Glenair, Incorporated 1211 Air Way Glendale, CA 91201-2405
07418	Sunbank Electronics, Incorporated 1740 Commerce Way Paso Robles, CA 93446-3620
31461	Electro Adapter, Incorporated 20640 Nordhoff Street Chatsworth, CA 91311-6114
OBW78	J-Tech Incorporated 548 Amapola Avenue Torrance, CA 90501-1472

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH 43216-5000	SIZE	CAGE CODE	DWG NO.
	A	037Z3	89017
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