

[METRIC]
A-A-55479A
8 August 2002
SUPERSEDING
A-A-55479
7 December 1993

COMMERCIAL ITEM DESCRIPTION

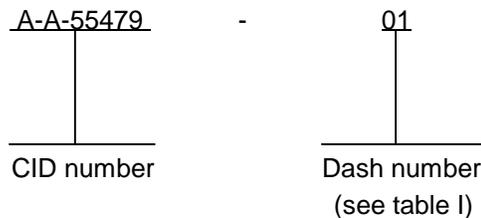
CONNECTORS, PIN, ELECTRICAL, RECTANGULAR, RACK AND PANEL, PIN PROTECTOR

The General Services Administration has authorized
the use of this Commercial Item Description (CID).

1. **SCOPE.** This CID covers the general requirements for connectors, pin, electrical, rectangular, rack and panel, pin protector. Connectors, pin, electrical, rectangular, rack and panel, pin protector covered by this CID are intended for commercial/industrial applications. This pin protector is for MIL-DTL-28748/9 connectors and can be used in applications that require an aluminum alloy pin protector.

2. **CLASSIFICATION.** This CID uses a classification system, which is included in the Part Identification Number (PIN) as shown in the following example (see 7.1).

PIN. The PIN for the CID shall be as shown in the following example:



Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be sent to: Defense Supply Center Columbus, ATTN: DSCC-VAI, Post Office Box 3990, Columbus, Ohio 43216-5000, telephone (614-692)-0538, or facsimile (FAX) (614) 692-6940

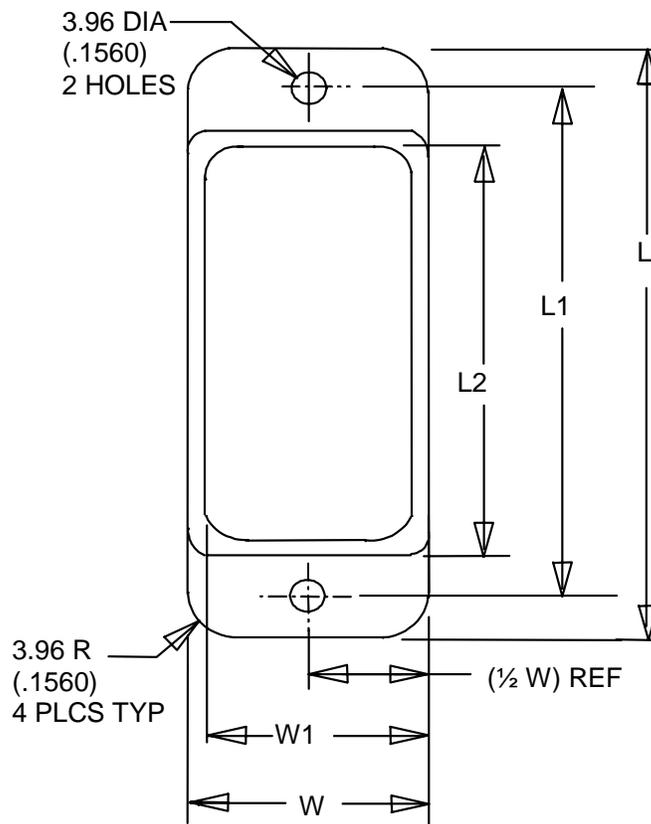
3. SALIENT CHARACTERISTICS.

3.1 Interface and physical dimensions. Connectors, pin, electrical, rectangular, rack and panel, pin protector supplied to this CID shall be as specified herein see figure 1 and table I.

3.2 Material. Pin protectors are manufactured from an aluminum alloy: A380 in accordance with AMS-QQ-A-591 or ASTM B 85, for durability and strength. Screw, lockwasher, and hex nut are stainless steel 300 series.

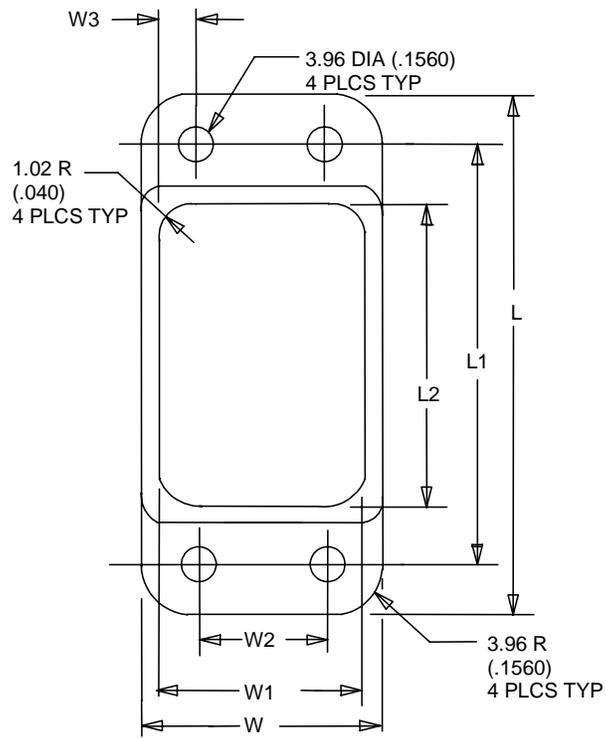
3.3 Finish. Pin protectors are anodized "dyed black" or electroless nickel, see table I. Screw, lockwasher, and hex nut are passivated in accordance with AMS-QQ-P-35.

3.4 Marking. Pin, electrical, rectangular, rack and panel, pin protector supplied to this CID shall be marked with the manufacturer's (MFR's) standard commercial PIN.



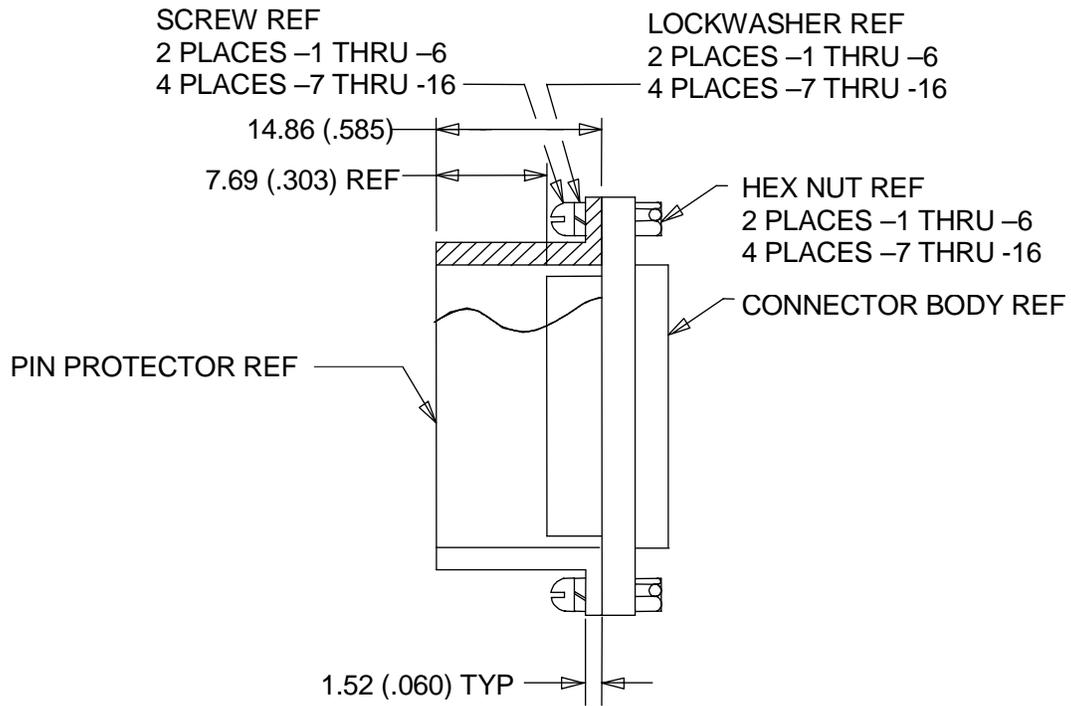
Dash numbers -01 through -06

Figure 1. Configuration and dimensions.



Dash numbers -07 through -16
Figure 1. Configuration and dimensions - Continued.

A-A-55479A



NOTES:

1. Dimensions are in millimeters.
2. Inches are in parentheses.
3. Unless otherwise specified, tolerance is ± 0.76 millimeter ($\pm .030$ inch).
4. The US Government preferred system of measurement is the metric SI system. However, this item was originally designed using inch-pound units of measurement. In the event of conflict between the metric and inch-pound units, the inch-pound units shall take precedence.
5. Dimensions L2 and W1 are measured at non-flanged opening, with 1° maximum draft acceptable.

Figure 1. Configuration and dimensions - Continued.

TABLE I. Ordering data.

CID Dash number A-A-55479- 1/ 2/	L mm (Inch)	L2 mm (Inch)	L1 mm (Inch)	W mm (Inch)	W1 mm (Inch)	W2 mm (Inch)	W3 mm (Inch)
01	42.55 (1.675)	24.59 (.968)	33.02 (1.300)	14.49 (.570)	12.22 (.481)	---	---
02	42.55 (1.675)	24.59 (.968)	33.02 (1.300)	14.49 (.570)	12.22 (.481)	---	---
03	42.55 (1.675)	24.59 (.968)	33.02 (1.300)	21.21 (.835)	18.82 (.741)	---	---
04	42.55 (1.675)	24.59 (.968)	33.02 (1.300)	21.21 (.835)	18.82 (.741)	---	---
05	53.98 (2.125)	35.99 (1.42)	44.45 (1.750)	21.21 (.835)	18.82 (.741)	---	---
06	53.98 (2.125)	35.99 (1.42)	44.45 (1.750)	21.21 (.835)	18.82 (.741)	---	---
07	57.79 (2.275)	39.78 (1.566)	48.26 (1.900)	27.81 (1.095)	25.43 (1.001)	13.97 (.550)	5.69 (.224)
08	57.79 (2.275)	39.78 (1.566)	48.26 (1.900)	27.81 (1.095)	25.43 (1.001)	13.97 (.550)	5.69 (.224)
09	61.60 (2.425)	43.46 (1.711)	51.94 (2.045)	34.42 (1.355)	32.03 (1.261)	20.62 (.812)	5.74 (.226)
10	61.60 (2.425)	43.46 (1.711)	51.94 (2.045)	34.42 (1.355)	32.03 (1.261)	20.62 (.812)	5.74 (.226)
11	73.03 (2.875)	55.04 (2.167)	63.50 (2.500)	34.42 (1.355)	32.03 (1.261)	20.62 (.812)	5.74 (.226)
12	73.03 (2.875)	55.04 (2.167)	63.50 (2.500)	34.42 (1.355)	32.03 (1.261)	20.62 (.812)	5.74 (.226)
13	73.03 (2.875)	55.04 (2.167)	63.50 (2.500)	47.37 (1.865)	44.98 (1.771)	31.75 (1.250)	6.65 (.262)
14	73.03 (2.875)	55.04 (2.167)	63.50 (2.500)	47.37 (1.865)	44.98 (1.771)	31.75 (1.250)	6.65 (.262)
15	73.03 (2.875)	55.04 (2.167)	63.50 (2.500)	60.83 (2.395)	58.45 (2.301)	46.99 (1.850)	5.77 (.227)
16	73.03 (2.875)	55.04 (2.167)	63.50 (2.500)	60.83 (2.395)	58.45 (2.301)	46.99 (1.850)	5.77 (.227)

1/ Odd CID dash numbers are electroless nickel.

2/ Even CID dash numbers are anodized and dyed black.

A-A-55479A

4. REGULATORY REQUIREMENTS. The offer/contractor is encouraged to use recoverable materials to the maximum extent practicable, in accordance with 23.403 of the Federal Acquisition Regulation (FAR).

5. PRODUCT CONFORMANCE PROVISIONS.

5.1 Product conformance. The products provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order.

7. NOTES.

7.1 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See section 2 for PIN format example.

7.2 Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these connectors, pin, electrical, rectangular, rack and panel, pin protector to DSCC under the Military Parts Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

7.3 Source of documents.

Military Specification

MIL-DTL-28748/9 - Connectors, Receptacle, Electrical, Rectangular, Rack and Panel, Polarized Center Jackscrew or Guidepin Style, Crimp Type Removable Pin Contacts, Size 16.

(Copies of federal and military specifications are available from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

Other publications.

American Society for Testing and Materials (ASTM)

ASTM B 85 - Standard Specification for Aluminum Alloy Die Castings.

(Applications for copies should be addressed to the American Society for Testing and Materials, 11 West 42nd Street, 13th Floor, New York, NY 10036.)

Society of Automotive Engineers (SAE)

AMS-QQ-P-35 - Passivation Treatments for Corrosion-Resistant Steel.

(Applications for copies should be addressed to the Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA 15096-0001.)

7.4 Ordering data. The contract or order should specify the following:

- a. CID document number, revision, and CID PIN.
- b. Product conformance provisions.
- c. Packaging requirements.
- d. Color (if applicable).

7.5 Commercial products. As part of the market analysis and research effort, this CID was coordinated with the following manufacturers or commercial products. At the time of CID preparation and coordination, this manufacturer was known to have commercial products that would meet the requirements of this CID. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict procurement to the only manufacturer shown.)

<u>MFR's CAGE</u>	<u>MFR's name and address</u>
53669	Packard Hughes Interconnect 17150 Von Karman Avenue Irvine, CA 92713-9685

7.6 Part number (P/N) supersession data. These CID PINs supersede the following MFR's P/N's as shown. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE II. Suggested sources of supply.

CID dash number <u>1/ 2/</u> A-A-55479-	MFR's CAGE	MFR's PIN <u>3/</u>
01	53669	MAC0010S004
02	53669	MAC0010S001
03	53669	MAC0020S004
04	53669	MAC0020S001
05	53669	MAC0036S004
06	53669	MAC0036S001
07	53669	MAC0052S004
08	53669	MAC0052S001
09	53669	MAC0080S004
10	53669	MAC0080S001
11	53669	MAC0104S004
12	53669	MAC0104S001
13	53669	MAC0158S004
14	53669	MAC0158S001
15	53669	MAC0212S004
16	53669	MAC0212S001

- 1/ Odd CID dash numbers are electroless nickel.
- 2/ Even CID dash numbers are anodized and dyed black.
- 3/ The manufacturer's PIN shall not be used for procurement to the requirements of this CID, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements see 3.4.

7.7 Government users. To acquire information on obtaining these pin, electrical, rectangular, rack and panel, pin protector from the Government inventory system, contact the Defense Supply Center Columbus, ATTN: DSCC-CDAB, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-7749.

7.8 Cross-reference. Cross-reference information is listed in table III, CID dash number to MIL-DTL-28748/9 insert designator.

TABLE III. Quick cross-reference.

CID dash number A-A-55479- 1/ 2/	MIL-DTL-28748/9 insert designator	Connector size
01	A or J	10
02	A or J	10
03	B or K	20
04	B or K	20
05	C or L	36
06	C or L	36
07	D or M	52
08	D or M	52
09	E or N	80
10	E or N	80
11	F or P	104
12	F or P	104
13	G or R	158
14	G or R	158
15	H or S	212
16	H or S	212

1/ Odd CID dash numbers are electroless nickel.

2/ Even CID dash numbers are anodized and dyed black.

7.9 National stock number (NSN). The following is a list of NSN's assigned which correspond to this CID. The list is for information only and may not be indicative of all possible NSN's associated with the CID. For up to date information on assigned NSN's, please contact the aforementioned DSCC office (See 7.7).

TABLE IV. NSN's.

Dash number (see table I) AA55479-	NSN
01	TBD
02	TBD
03	TBD
04	TBD
05	TBD
06	5935-01-440-4122
07	TBD
08	5935-01-440-4123
09	TBD
10	5935-01-440-4126
11	TBD
12	TBD
13	TBD
14	5935-01-440-4130
15	TBD
16	5935-01-440-4132

MILITARY INTERESTS

Custodian:
Navy - EC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

Preparing Activity:

DLA - CC

Project 5935-4506