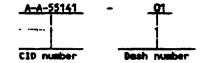
COMMERCIAL ITEM DESCRIPTION

CONNECTORS, ELECTRICAL, IEEE 488 COMPATIBLE, RECTANGULAR, MINIATURE, POLARIZED SHELL, RECEPTACLE, LOW PROFILE, 24 POSITION, FLAT CABLE TERMINATING, INSULATION DISPLACEMENT, PANEL MOUNT

The General Services Administration has authorized the use of this commercial item description (CID).

Abstract. This CID covers the general requirements for a polarized shell, receptacle, electrical digital interface bus connector. This connector can be used in applications that require conformance to the IEEE 488 interface standard, and require termination of a 1.27 mm (.050 inch) flat cable. Connectors covered by this CID are intended for commercial/industrial applications and any be used in military systems where individual environmental and performance requirements can be met.

Part or Identifying Number (PIN). The PIN for the CID shall be as shown in the following example:



Salient cherecteristics.

<u>Design</u>, construction, and dimensions. Design, construction, and dimensions shall be as specified on figure 1 and in accordance with IEEE 488.

<u>Contacts</u>. The contacts are formed of a high conductive, high strength copper alloy with gold over nickel plating in the contact area.

<u>Connector housings</u>. Connector housings are molded from self-extinguishing black thermoplestic material for high impact and dielectric strength.

<u>Termination wire range</u>. Terminations are insulation displacement type which accommodate .050 inch (1.27 mm) conterline flat cable conductor with wire ranges of 26-30 AWS solid or 28 AWG strended wire.

Contact rating. Contacts shell be rated at 1 ampere maximum at +25°C.

Termination resistance. The contact resistance shell be 22 milliohus maximum initial for mated connectors and 12 milliohus initial for unmated connectors.

<u>Dielectric withstending voltage</u>. There shall be no breakdown of the insulating material when subjected to 1000 V ac for 1 minute between adjacent contacts of the mated connector assemblies.

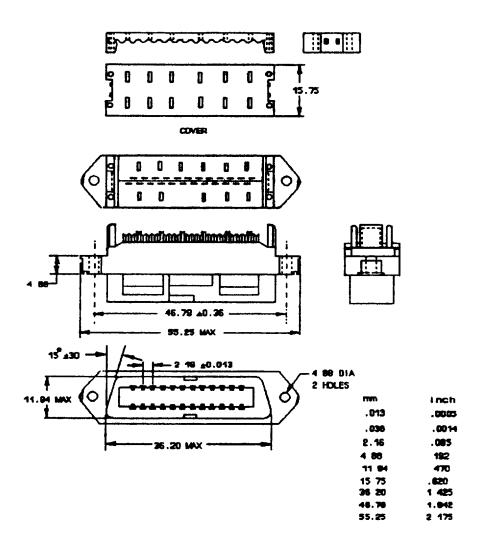
Mating force. Connector mating force shall not exceed 3.12 newtons (0.7 pound) maximum per contact.

Unsating force. Connector unsating force shall not exceed 0.89 newton (0.20 pound) minimum per contact

<u>Runsbility</u>. Durability shall consist of 200 cycles of mating and unmating and upon completion the termination resistance shall not exceed a change greater than 10 milliohas maximum from the initial resistance. There shall be no indication of physical damage.

Operating temperature. The operating temperature range shall be from -40°C to +75°C.

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NOTES:

- 1. Dimensions are in millimeters.
- 2. Inches ere in perentheses.
- This item was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.

Figure 1. Connector, flat cable terminating, 24 contacts, screw locking.

<u>Vibration</u>. The connector, or hardware when assembled to the connector, shall exhibit no evidence of breaking, cracking, or loosening of parts when subjected to vibration of 10-55-10 Hz traversed in 1 minute at 1.52 mm (.050 inch) total excursion for 2 hours in each of three mutually perpendicular planes.

<u>Physical shock</u>. The connector, or herdware when assembled to the connector, shall exhibit no evidence of breaking, cracking, or loosening of parts when subjected to 50 6's half-sine wave shock of 11 milliseconds duration, 3 shocks in each direction applied along the three mutually perpendicular planes for a total of 18 shocks.

Regulatory requirements. This section is not applicable to this CID.

Quality assurance provisions.

Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the perferance of all inspection, examination, and test requirements specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the inspection requirements specified herein, unless disapproved by the Sovernment. The Government reserves the right to perform any of the inspections, examinations, or tests set forth in this description where such inspections, examinations, and tests are deemed necessary to assure supplies and services conform to prescribed requirements.

<u>Contractor certification statement</u>. The contractor shall certify and maintain objective quality evidence that the product offered meets the requirements of this CID, and that the product conforms to the producer's own drawings, apacifications, standards, quality assurances practices, and is the same as the product provided as a bid sample. The Government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

<u>Certificate of compliance</u>. A certificate of compliance shall accompany all connectors supplied to this CID.

Packaging.

<u>Preservation, packaging, packing, labeling, and marking.</u>
Preservation, packaging, labeling, and marking shall be as specified in the contract or purchase order.

<u>Motes</u>. This section contains relevant information which is useful to buyers, users, and suppliers in the process of acquiring the item, but is not mendatory.

Referenced document.

Other Publication

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)

IEEE 488 - IEEE Standard Digital Interface for Programmable Instrumentation.

(Applications for copies should be addressed to the Institute of Electrical and Electronics Engineers (IEEE), IEEE Service Center, 445 Hoes Lame, P.O. Box 1331, Piscataway, NJ 08855-1331.)

Ordering data. Acquisition documents should specify the following:

- a. CID document number and revision and CID PIN.
- b. Quality assurance provisions.
- c. Packaging requirements.

Comments. Comments on this CID should be directed to Defense Electronics Supply Center, 1507 Wilmington Pike, ATTN: DESC-ENT, Dayton, OH 45444-5000, or telephone (513) 296-5391.

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Source of supply. A suggested source of supply is listed in table I. Additional sources will be added as they become available.

TABLE 1. Suggested source of supply.

CID PIN	Vendor commercial	Vendor CAGE
A-A-55%1-	PSM	Number
OI	554088-1	00779

Vendor CAGE number

00779

Vendor name and address

AMP, Incorporated 470 Friendship Road Harrisburg, PA 17111-1205

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

PREPARING ACTIVITY:

DLA-ES

(Project 5935-0427)