

A-A-55466A

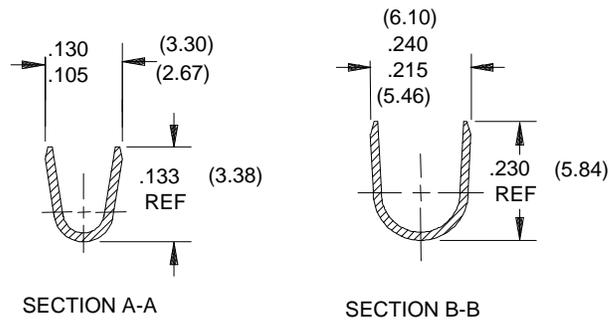
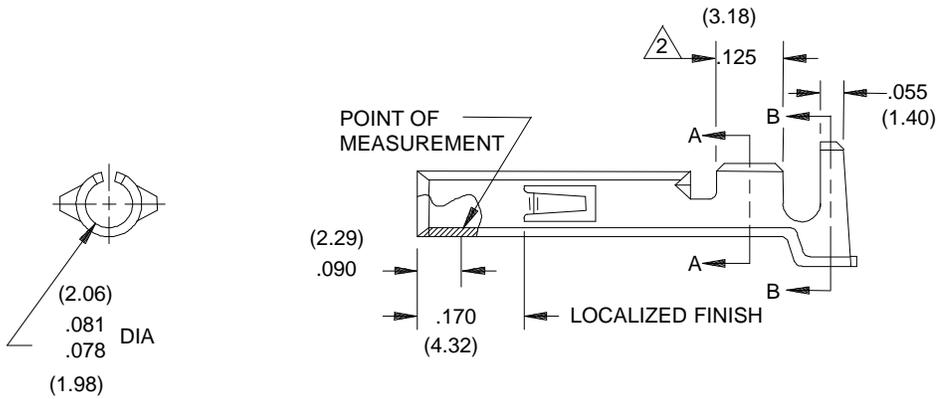
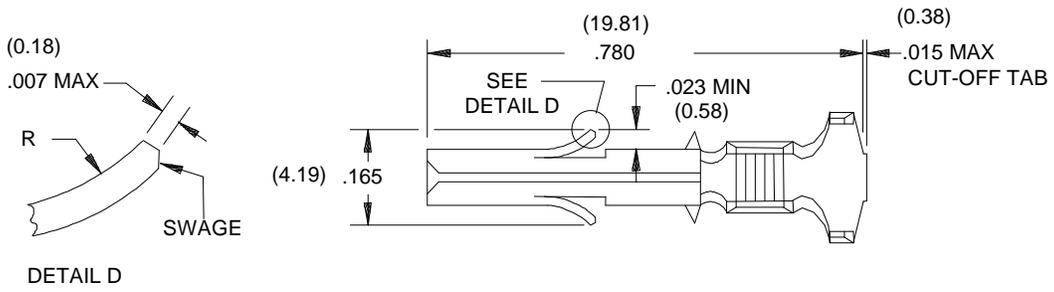


Figure 1. Socket, loose piece.

Table I.

CID dash number	Wire gage	Insulation range diameter.	Wire barrel height A-A width:height	Insulation barrel Height B-B width:height
A-A-55466-01	24-18	.040-.100	.110/.085:.130/.105	.145/.120:.145/.120
A-A-55466-02	24-18	.040-.100	.110/.085:.130/.105	.145/.120:.145/.120
A-A-55466-03	24-18	.040-.100	.110/.085:.130/.105	.145/.120:.145/.120
A-A-55466-04	24-18	.040-.100	.110/.085:.130/.105	.145/.120:.145/.120

A-A-55466-05	20-14	.060-.130	.130/.105:.133 ref	.170/.145:.178 ref
A-A-55466-06	20-14	.060-.130	.130/.105:.133 ref	.170/.145:.178 ref
A-A-55466-07	20-14	.060-.130	.130/.105:.133 ref	.170/.145:.178 ref
A-A-55466-08	20-14	.060-.130	.130/.105:.133 ref	.170/.145:.178 ref
A-A-55466-09	20-14	.060-.130	.130/.105:.133 ref	.170/.145:.178 ref

A-A-55466-10	20-14	.130-.200	.130/.105:.145/.120	.240/.215:.240/.215
A-A-55466-11	20-14	.130-.200	.130/.105:.145/.120	.240/.215:.240/.215
A-A-55466-12	20-14	.130-.200	.130/.105:.145/.120	.240/.215:.240/.215
A-A-55466-13	20-14	.130-.200	.130/.105:.145/.120	.240/.215:.240/.215
A-A-55466-14	20-14	.130-.200	.130/.105:.145/.120	.240/.215:.240/.215

NOTES:

1. Dimensions are in inches.
2. Millimeters are in parentheses.
3. 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. Socket, loose piece -continued.

A-A-55466A

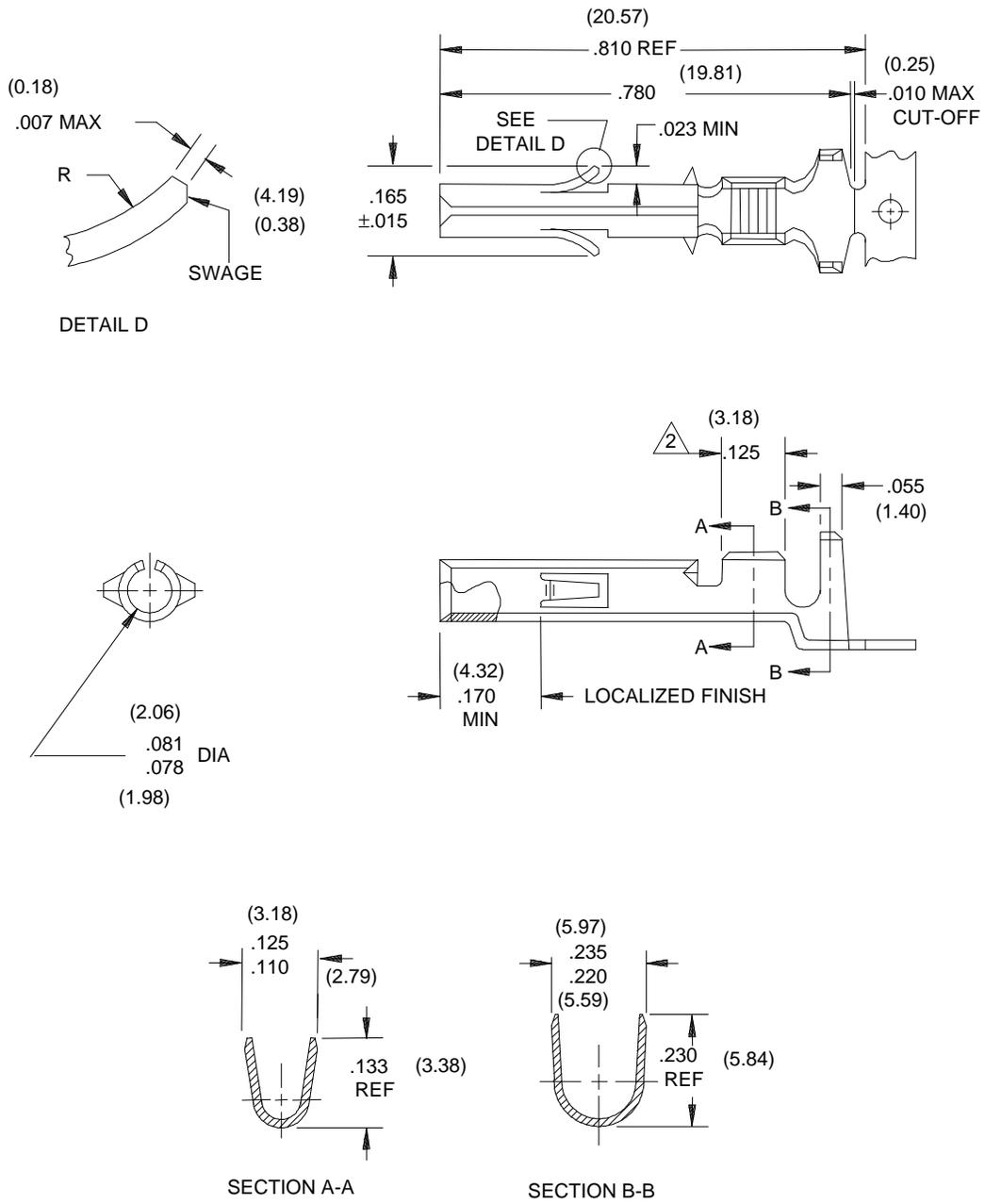


Figure 2. Socket, strip.

Table II.

CID dash number	Wire gage	Insulation range diameter.	Wire barrel height A-A width:height	Insulation barrel Height B-B width:height
A-A-55466-15	24-18	.040-.100	.105/.090:.125/.110	.140/.125:.140/.125
A-A-55466-16	24-18	.040-.100	.105/.090:.125/.110	.140/.125:.140/.125
A-A-55466-17	24-18	.040-.100	.105/.090:.125/.110	.140/.125:.140/.125
A-A-55466-18	24-18	.040-.100	.105/.090:.125/.110	.140/.125:.140/.125
A-A-55466-19	24-18	.040-.100	.105/.090:.125/.110	.140/.125:.140/.125

A-A-55466-20	20-14	.060-.130	.125/.110:.133 ref	.165/.150:.178 ref
A-A-55466-21	20-14	.060-.130	.125/.110:.133 ref	.165/.150:.178 ref
A-A-55466-22	20-14	.060-.130	.125/.110:.133 ref	.165/.150:.178 ref
A-A-55466-23	20-14	.060-.130	.125/.110:.133 ref	.165/.150:.178 ref
A-A-55466-24	20-14	.060-.130	.125/.110:.133 ref	.165/.150:.178 ref

A-A-55466-25	20-14	.130-.200	.125/.110:.133 ref	.235/.220:.230 ref
A-A-55466-25	20-14	.130-.200	.125/.110:.133 ref	.235/.220:.230 ref
A-A-55466-27	20-14	.130-.200	.125/.110:.133 ref	.235/.220:.230 ref
A-A-55466-28	20-14	.130-.200	.125/.110:.133 ref	.235/.220:.230 ref
A-A-55466-29	20-14	.130-.200	.125/.110:.133 ref	.235/.220:.230 ref

NOTES:

1. Dimensions are in inches.
2. Millimeters are in parentheses.
3. 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 2. Socket, strip - continued.

Crimp tensile strength. The crimp tensile strength of the wire-to-contact termination shall not be less than the value specified in table III when tested at a cross-head parting speed of 25 millimeters (1 inch) per minute, maximum.

Table III. Crimp tensile strength.

Wire size (AWG)	Tensile strength kilograms (pounds)
24	3.63 (8)
22	6.35 (14)
20	6.35 (14)
18	13.61 (30)
16	20.41 (45)
14	22.68 (50)

Dielectric withstanding voltage. There shall be no breakdown of the insulating material when subjected to 5000 V ac for 1 minute between adjacent contacts of the mated connector assemblies.

Vibration. 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 1.5 millimeters (.06 inch) total excursion for 2 hours in each of three mutually perpendicular planes. The contacts shall evidence no discontinuity greater than 10 microseconds and termination resistance not to exceed, dry circuit, 5.0 milliohms maximum.

Physical shock. The connector, or hardware when assembled to the connector, shall be subjected to 50 G's at 10 milliseconds; 3 shocks in each direction applied along the three mutually perpendicular planes, total 18 shocks. The contacts shall evidence no discontinuity greater than 10 microseconds and termination resistance, dry circuit, not to exceed 6.0 milliohms.

Thermal shock. The connector, when mated, shall be subjected to 25 cycles between -55°C and 85°C. dielectric withstanding voltage; 3.75 milliohms maximum termination resistance, dry circuit.

Temperature-Humidity cycling. The connector, when mated, shall be subjected to temperature-humidity cycling between 25°C and 65°C at 95 percent RH, with cold shock at -10°C during any 5 of the first 9 cycles.

Corrosion. Corrosion shall be 48 hours at 5 percent salt concentration. After exposure of the mated and unmated connectors, the termination resistance, dry circuit, shall not exceed 7.0 milliohms maximum.

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 performance 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 Government. 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.

Contractor certification statement. 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, specifications, 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.

Certificate of compliance. A certificate of compliance shall accompany all parts supplied to this CID.

Packaging.

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

Notes. This section contains relevant information which is useful to buyers, users and suppliers in the process of procuring the item, but is not mandatory.

Ordering data. Acquisition documents should specify the following:

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

Comments. Comments on this CID should be directed to Defense Electronics Supply Center, 1507 Wilmington Pike, ATTN: DESC-ELDI, Dayton, OH 45444-5270, or telephone (513) 296-5391.

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

Table IV. Suggested sources of supply.

Loose piece ordering data							
CID dash number	Vendor commercial PIN	Figure number	Wire gauge	Base material	Overplate	Under-plate	Vendor CAGE Number
A-A-55466-01	350689-1	1	24-18	Brass	Pre-tin	---	00779
A-A-55466-02	350689-2	1	24-18	Brass	Gold <u>1</u> /	Nickel	00779
A-A-55466-03	350689-3	1	24-18	Ph. Br.	Pre-tin	---	00779
A-A-55466-04	350689-7	1	24-18	Brass	Gold <u>2</u> /	Nickel	00779
A-A-55466-05	350550-1	1	20-14	Brass	Pre-tin	---	00779
A-A-55466-06	350550-2	1	20-14	Brass	Gold <u>1</u> /	Nickel	00779
A-A-55466-07	350550-3	1	20-14	Ph. Br.	Pre-tin	---	00779
A-A-55466-08	350550-6	1	20-14	Ph. Br.	Gold <u>2</u> /	Nickel	00779
A-A-55466-09	350550-7	1	20-14	Brass	Gold <u>2</u> /	Nickel	00779
A-A-55466-10	350551-1	1	20-14	Brass	Pre-tin	---	00779
A-A-55466-11	350551-2	1	20-14	Brass	Gold <u>1</u> /	Nickel	00779
A-A-55466-12	350551-3	1	20-14	Ph. Br.	Pre-tin	---	00779
A-A-55466-13	350551-6	1	20-14	Ph. Br.	Gold <u>2</u> /	Nickel	00779
A-A-55466-14	350551-7	1	20-14	Brass	Gold <u>2</u> /	Nickel	00779

Table IV. Suggested sources of supply - continued.

Strip form ordering data							
CID dash number	Vendor commercial PIN	Figure number	Wire gauge	Base material	overplate	Under-plate	Vendor CAGE Number
A-A-55466-15	350570-1	2	24-18	Brass	Pre-tin	---	00779
A-A-55466-16	350570-2	2	24-18	Brass	Gold <u>1</u> /	Nickel	00779
A-A-55466-17	350570-3	2	24-18	Ph. Br.	Pre-tin	---	00779
A-A-55466-18	350570-6	2	24-18	Ph. Br.	Gold <u>2</u> /	Nickel	00779
A-A-55466-19	350570-7	2	24-18	Brass	Gold <u>2</u> /	Nickel	00779
A-A-55466-20	350536-1	2	20-14	Brass	Pre-tin	---	00779
A-A-55466-21	350536-2	2	20-14	Brass	Gold <u>1</u> /	Nickel	00779
A-A-55466-22	350536-3	2	20-14	Ph. Br.	Pre-tin	---	00779
A-A-55466-23	350536-6	2	20-14	Ph. Br.	Gold <u>2</u> /	Nickel	00779
A-A-55466-24	350536-7	2	20-14	Brass	Gold <u>2</u> /	Nickel	00779
A-A-55466-25	350537-1	2	20-14	Brass	Pre-tin	---	00779
A-A-55466-26	350537-2	2	20-14	Brass	Gold <u>1</u> /	Nickel	00779
A-A-55466-27	350537-3	2	20-14	Ph. Br.	Pre-tin	---	00779
A-A-55466-28	350537-6	2	20-14	Ph. Br.	Gold <u>2</u> /	Nickel	00779
A-A-55466-29	350537-7	2	20-14	Brass	Gold <u>2</u> /	Nickel	00779

1/ .000030 inch of thick gold over nickel on inside of receptacle and wire barrel; remainder of contact is nickel plated.

2/ .000030 inch of thick gold over nickel on inside of receptacle; remainder of contact is nickel plated.

Supersession data. Supersession data shall be as specified in table V.

Table V. Supersession data.

Superseded (old) PIN	Superseding (new) PIN A-A-55466	Superseded (old) PIN	Superseding (new) PIN A-A-55466
021	01	N/A	16
N/A	02	009	17
022	03	011	18
024	04	012	19
013	05	001	20
N/A	06	N/A	21
014	07	002	22
015	08	003	23
016	09	004	24
N/A	10	N/A	25
N/A	11	N/A	26
N/A	12	N/A	27
N/A	13	N/A	28
N/A	14	N/A	29
009	15		

Vendor CAGE
number

00779

Vendor name
and address

AMP, Incorporated
P.O. Box 3608
Harrisburg, PA 17105-3608

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

PREPARING ACTIVITY:

DLA-ES

(Project 5935-D523)