

A-A-55487  
23 NOVEMBER 1994  
SUPERSEDING  
AN415  
30 APRIL 1990

## COMMERCIAL ITEM DESCRIPTION

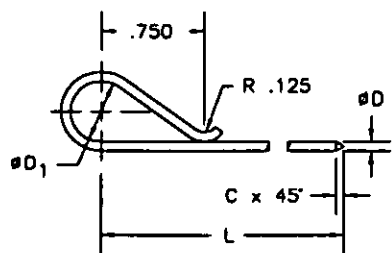
### PIN, LOCK (HITCH PIN)

THE GENERAL SERVICES ADMINISTRATION HAS AUTHORIZED THIS COMMERCIAL ITEM DESCRIPTION FOR ALL FEDERAL AGENCIES

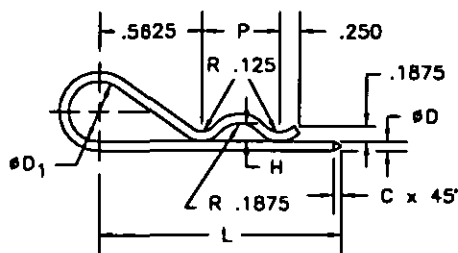
1. SCOPE: THIS COMMERCIAL ITEM DESCRIPTION (CID) DEPICTS THE REQUIREMENTS FOR A LOCK PIN (HITCH PIN).
2. SALIENT CHARACTERISTICS.
  - 2.1. MATERIAL:  
TABLE 1. STAINLESS STEEL SPRING WIRE, TYPE 316 (UNS S31600), IN ACCORDANCE WITH ASTM A313.  
TABLE 2. CARBON STEEL SPRING WIRE, TYPE I, CLASS 1 OR 2 IN ACCORDANCE WITH QQ-W-428.
  - 2.2. SURFACE TREATMENT/PLATING:  
A. CRES PINS SHALL BE PASSIVATED IN ACCORDANCE WITH QQ-P-35.  
B. CARBON STEEL PINS SHALL BE ZINC PLATED, TYPE II FE/ZN13 IN ACCORDANCE WITH ASTM B633.
  - 2.3. TOLERANCE IS  $\pm .0156$ , UNLESS OTHERWISE SPECIFIED.

BENEFICIAL COMMENTS, RECOMMENDATIONS, ADDITIONS, DELETIONS, CLARIFICATIONS, ETC., AND DATA WHICH MAY IMPROVE THIS DOCUMENT SHOULD BE SENT TO: DEFENSE INDUSTRIAL SUPPLY CENTER. ATTN: DISC-ECA, 700 ROBBINS AVENUE, PHILADELPHIA, PA 19111-5096.

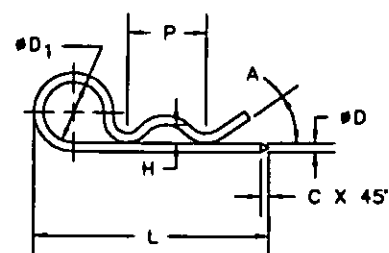
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AA55487-1-(X)



AA55487-2



AA55487 -3 THRU -7

TABLE I. CRES PINS

CID P/N	ØD WIRE	L LENGTH	ØD <sub>1</sub> EYE	H HEIGHT	P PITCH	A ANGLE ± 5°	C X 45° CHAMFER, MIN	CLEVIS PIN DIA REF
-1(X)	.080 $\begin{smallmatrix} +.000 \\ -.002 \end{smallmatrix}$	1/	.375	-	-	-	.020	
-2	.080 $\begin{smallmatrix} +.000 \\ -.002 \end{smallmatrix}$	1.938	.375	.188	.750	-	.020	.375
-3	.0295 ± .001	.594	.094	.047	.188	35°	.014	.125
-4	.0585 ± .001	1.125	.250	.094	.375	35°	.020	.250
-5	.0725 ± .002	1.438	.313	.094	.500	35°	.020	.312
-6	.0915 ± .002	1.875	.688	.125	.563	35°	.020	.375
-7	.1480 ± .002	2.688	.781	.125	.875	35°	.020	.625

1/AA55487-1-(X) ONLY: SECOND DASH NUMBER INDICATES LENGTH L IN INCREMENTS OF ONE (1) INCH.

EXAMPLE: AA55487-1-7 IS THE PART NUMBER FOR A TYPE AA55487-1 PIN WITH LENGTH (L) OF SEVEN (7) INCHES. LENGTH (L) AVAILABLE IN 1, 2, 3, 4, 5, 7, 8, 10, 12, 13, 18, 19, 20, 25, OR 26 INCHES.

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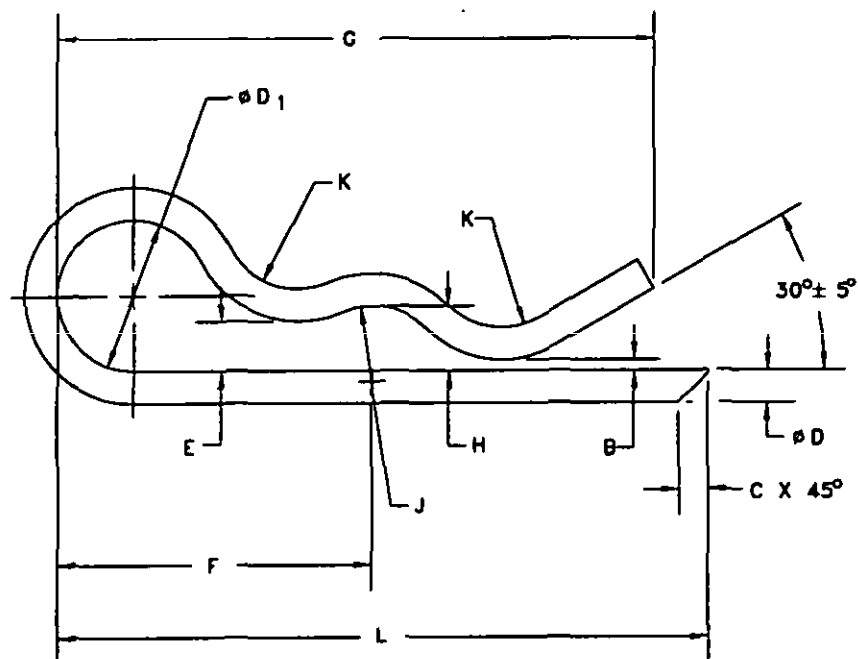


TABLE II. ZINC PLATED CARBON STEEL PINS

CID P/N	$\phi D$	B	G	J (RAD)	H	F	$\phi D_1$	E	K (RAD)	L	C X 45°	CLEVIS PIN DIA (REF)
-8	.062 ± .001	.03	.81	.12	.08	.48	.18	.03	.16	.88	.014	.25
-9	.062 ± .001	.03	.81	.09	.08	.48	.18	.03	.16	.88	.014	.19
-10	.093 ± .002	.03	.94	.16	.09	.56	.22	.05	.19	1.03	.014	.31
-11	.093 ± .002	.09	.94	.22	.16	.53	.22	.11	.19	1.03	.014	.44
-12	.093 ± .002	.06	1.50	.12	.16	.62	.32	.08	.25	1.66	.020	.25
-13	.125 ± .002	.06	1.31	.25	.16	.73	.32	.11	.25	1.41	.020	.50
-14	.125 ± .002	.09	1.50	.31	.22	.73	.32	.16	.16	1.59	.020	.62
-15	.125 ± .002	.03	1.62	.38	.22	.88	.38	.12	.19	1.75	.020	.75
-16	.125 ± .002	.03	2.62	.50	.31	1.25	.62	.25	.38	2.75	.020	1.00
-17	.125 ± .002	.06	3.00	.62	.34	1.38	.62	.28	.50	3.12	.020	1.25
-18	.148 ± .002	.03	2.75	.25	.16	1.38	.62	.31	.25	3.06	.020	.50

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**3. QUALITY CONFORMANCE PROVISIONS:**

- 3.1. THE SUPPLIERS SHALL BE RESPONSIBLE FOR THOSE IN PROCESS CONTROLS AND INSPECTIONS NECESSARY TO SUPPLY A PRODUCT CONSISTENTLY CONFORMING TO THE REQUIREMENTS OF THIS DOCUMENT.
- 3.2. UPON REQUEST, THE SUPPLIER WILL CERTIFY WITH DOCUMENTED TEST/INSPECTION EVIDENCE, THAT THE PARTS SUPPLIED MEETS THE REQUIREMENTS OF THIS DOCUMENT.

**4. NOTES:**

- 4.1. ALL DIMENSIONS ARE IN INCHES.
- 4.2. CHAMFER AS SHOWN AND REMOVE ALL BURRS AND BREAK SHARP EDGES.
- 4.3. INTERPRET DRAWING IN ACCORDANCE WITH ANSI Y14.5M.
- 4.4. PART NUMBER: THE PART NUMBER SHALL CONSIST OF THE BASIC CID NUMBER AND A DASH NUMBER FROM TABLE I OR TABLE II.

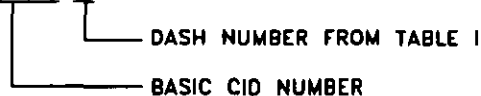
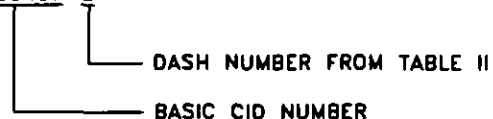
EXAMPLE: AA55487-2EXAMPLE: AA55487-8

TABLE III. CROSS - REFERENCE TABLE.

CANCELLED MS PIN	REPLACEMENT CID PIN
AN415 - * 1/	AA55487 - * 1/

1/ \* REPRESENTS THE SAME DESIGNATION CODES FOR BOTH AN AND CID PINS.

**MILITARY INTERESTS****CUSTODIANS**

NAVY - AS  
ARMY - AV  
AIR FORCE - 99

**PREPARING ACTIVITY**

DLA-IS

(PROJECT: 5315-0491)