

MIL-S-23190/1A
 27 September 1974
 SUPERSEDING
 MIL-S-23190/1
 16 March 1973

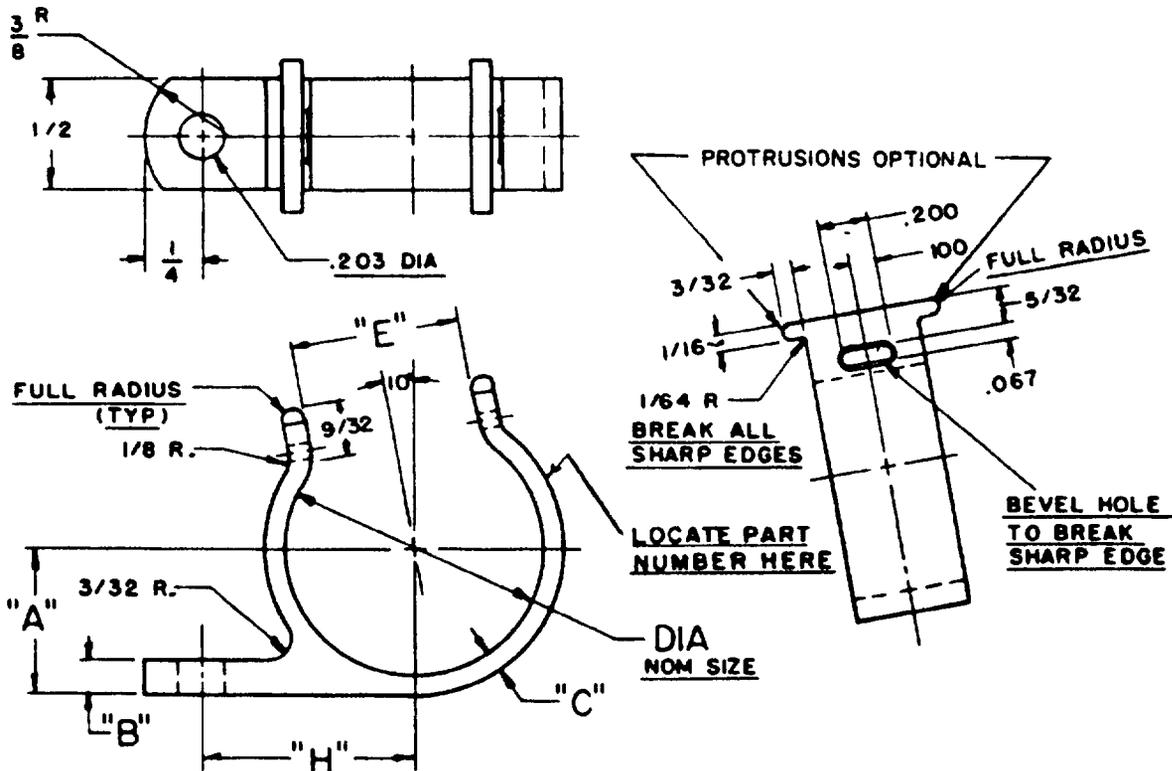
MILITARY SPECIFICATION SHEET

STRAPS, CLAMPS, AND MOUNTING HARDWARE, PLASTIC
 FOR CABLE HARNESS TYING AND SUPPORT

CLAMP, LOOP, NYLON, ADJUSTABLE, WIRE SUPPORT, TYPE III, CLASS 1

This specification is approved for use by all Departments
 and Agencies of the Department of Defense.

The complete requirements for procuring the clamp described herein shall
 consist of this document and the issue in effect of specification MIL-S-23190.



Part Number
M23190/1-*

FSC 5340

* See Table 1 for dash numbers

MIL-S-23190/1A

TABLE 1

DASH NO.	NOM. SIZE	SIZE RANGE	H	A	B	C	E
0	3/16	1/8 TO 1/4	7/16	5/32	.078	.065	1/8
1	5/16	1/4 TO 3/8	1/2	13/64	.109	.065	3/16
2	7/16	3/8 TO 1/2	9/16	17/64	.109	.065	1/4
3	5/8	1/2 TO 11/16	5/8	23/64	.109	.065	3/8
4	7/8	11/16 TO 15/16	13/16	31/64	.109	.065	1/2
5	1 1/8	7/8 TO 1 1/4	15/16	21/32	.156	.093	3/4
6	1 1/2	1 3/16 TO 1 5/8	1 1/8	27/32	.156	.093	1
7	2	1 9/16 TO 2 3/16	1 3/8	1 3/32	.156	.093	1 1/4

NOTE

DIMENSIONS AND TOLERANCES APPLY WHEN
INSTALLED ON A MANDRIL OF NOMINAL SIZE

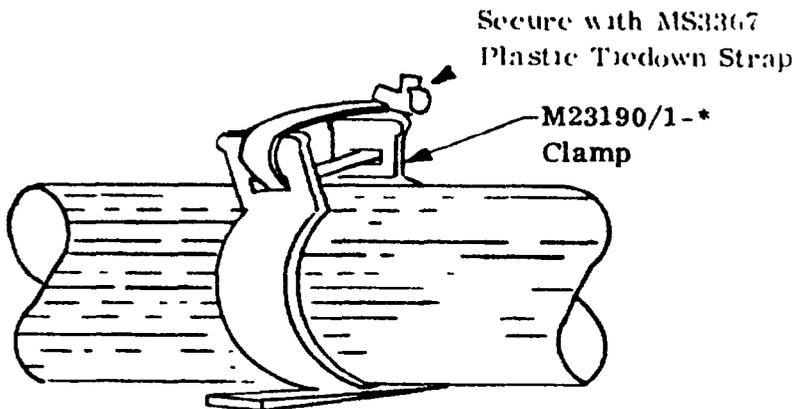
FIGURE 2 - Typical Attachment

TABLE 2
TEST FIXTURE DATA

DASH NO.	TENSILE STRENGTH * MANDREL DIA. ± .020	VIBRATION TESTS ** WIRE BUNDLE M5082/2 WIRE	
		APPROX. NO. OF WIRES	WIRE SIZES
0	.188	3	14
1	.250	3	14
2	.250	5	14
3	.562	1	8
		9	14
4	.875	8	8
5	1.250	4	1/0
		5	14
6	1.250	4	1/0
		5	14
7	1.750	7	1/0
		6	8

* Ref. Figure 3 of MIL-S-23190

** Ref. Figure 4 of MIL-S-23190

MIL-S-23190/1A

REQUIREMENTS:

1. Material: Nylon, heat stabilized composition, in accordance with MIL-M-20693, Composition A, Type I, Color: Natural.
2. Remove all burrs and sharp edges; break all sharp corners. Mold marks and normal vent flash are permissible.
3. Dimensions in inches. Unless otherwise specified, tolerances: Fractions $\pm 1/32$ Decimals $\pm .030$ Angles $\pm 2^{\circ}$.
4. Configuration may vary from that shown provided dimensions remain within tolerance.
5. Part number: The part number shall consist of the letter "M", specification sheet number, and a dash number from Table I.

Example of Part Number: M23190/1-1

6. Tensile strength: Tensile strength for all dash numbers is 50 pounds, which is the minimum tensile strength of the largest plastic tiedown strap usable with the clamp.

Custodians:

Army - EL
Navy - AS
Air Force - 80

Preparing Activity:

Navy - AS
Project No. 5340-1100

Review Activities

Army - AV, MI
Navy -
Air Force -

User Activities:

Army - ME, WC
Navy - EC, MC, OS, SH

FOLD

DEPARTMENT OF THE NAVY
Naval Air Engineering Center
Philadelphia, PA 19112

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
DEPARTMENT OF THE NAVY
DDD 316



Engineering Specifications and Standards Department (Code ES)
Naval Air Engineering Center
Philadelphia, PA 19112

FOLD