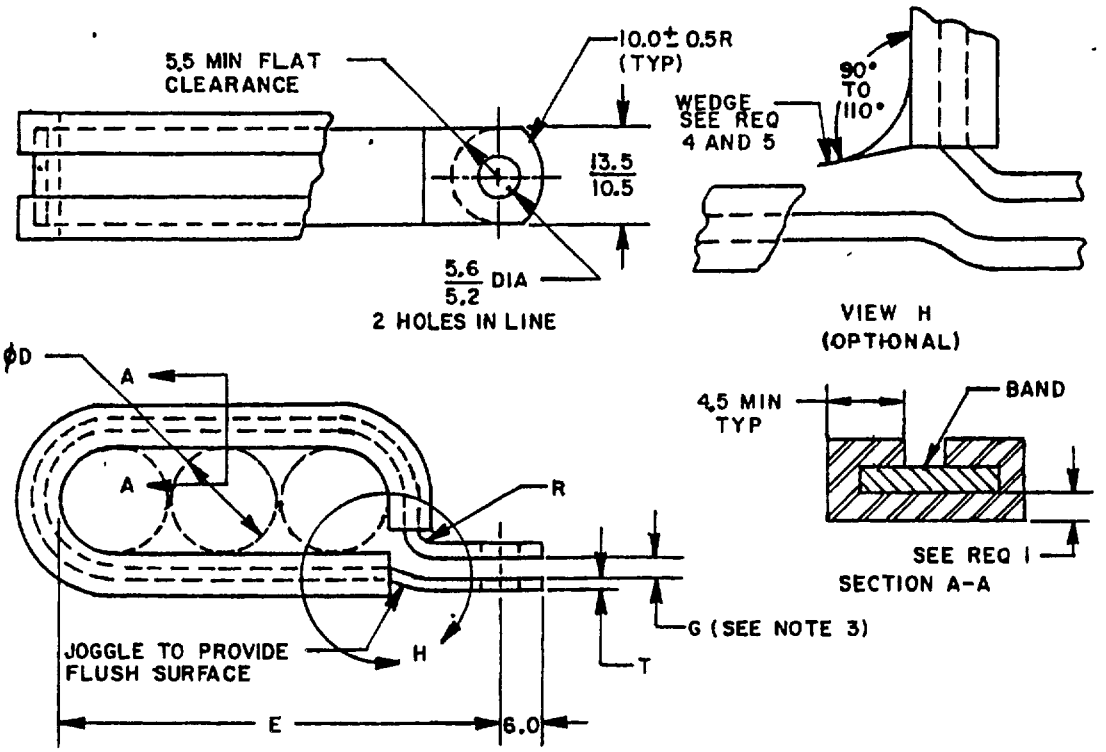
FED SUP CLASS
5340



REQUIREMENTS:

1. MATERIAL

BAND — ALUMINUM ALLOY, 2024-O, HEAT TREATED TO T42 CONDITION IN ACCORDANCE WITH MIL-H-6088 CORROSION RESISTANT STEEL, TYPE 302 IN ACCORDANCE WITH MIL-S-5059, OR TYPE 321 IN ACCORDANCE WITH AMS 5510-78.

CUSHION — CHLOROPRENE RUBBER, 65-75 DUROMETER "A", IN ACCORDANCE WITH AMS 3209-81 AND PROCUREMENT SPECIFICATION, 1.6 mm THICK
SILICON RUBBER, 55-65 DUROMETER "A", IN ACCORDANCE WITH AMS 3303-75, 1.6 mm THICK
POLYTETRAFLUOROETHYLENE (PTFE) IN ACCORDANCE WITH ASTM D1457-81, TYPE I, 0.6 mm THICK.
FLUOROSILICONE RUBBER, IN ACCORDANCE WITH MIL-R-25988, TYPE II, CLASS 1, GRADE 60, 1.6 mm THICK.
NITRILE RUBBER, 65-75 DUROMETER "A", IN ACCORDANCE WITH AMS 3215-78 AND PROCUREMENT SPECIFICATION, 1.6 mm THICK
ETHYLENE PROPYLENE IN ACCORDANCE WITH PROCUREMENT SPECIFICATION

2. FINISH.

CRES — PASSIVATE IN ACCORDANCE WITH ASTM A380-78
ALUMINUM ALLOY - CHEMICAL FILM PER MIL-C-5541, CLASS 1A.

3. SURFACE TREATMENT.

CUSHIONS FABRICATED FROM PTFE SHALL BE SODIUM TREATED IN ACCORDANCE WITH THE SURFACE TREATMENT PARAGRAPHS OF AMS 2491-81 TO REDUCE THE MATERIAL'S LUBRICITY
ALL OTHER PARAGRAPHS OF AMS 2491-81 SHALL NOT APPLY

4 THE WEDGE SHALL BE INTEGRALLY MOLDED TO CUSHION USING PRESSURE AND HEAT TO ACCOMPLISH A BOND BETWEEN CUSHION AND WEDGE.

5 THE WEDGE SHALL OVERLAP AND TOUCH THE OPPOSITE END OF THE CUSHION WHEN CLAMP MOUNTING HOLES ARE ALIGNED AND THE CLAMP IS COMPLETELY CLOSED.

METRIC

APPROVED 23 DEC 1983 REVISED

USER ACTIVITIES
NAVY - EC

REVIEWER ACTIVITIES
ARMY - AR, MI
NAVY - YD
AIR FORCE - 11
DLA - IS

This military standard is approved for use by all Departments and Agencies of the Department of Defense Selection for all new engineering and design applications and for repetitive use shall be made from this document

P A	AS	INTERNATIONAL INTEREST	TITLE	MILITARY STANDARD
Other Cust	AV		CLAMP, LOOP, CUSHIONED ELONGATED, METRIC	DS14272
	99			
PROCUREMENT SPECIFICATION: MIL-C-8603		SUPERSEDES:		PAGE 1 OF 3

DD FORM 672-1 (COORDINATED) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE 5340-1485

6. CUSHION SELECTION GUIDE.

CHLOROPRENE:	RECOMMENDED FOR GENERAL PURPOSE USE IN AREAS CONTAMINATED WITH PETROLEUM BASE HYDRAULIC FLUID AND OCCASIONAL FUEL SPLASH. EXCELLENT OZONE RESISTANCE. NOT RESISTANT TO PHOSPHATE ESTER BASED FLUIDS. NOT FOR USE WITH TITANIUM TUBING. COLOR SHALL BE BLACK WITH A BLUE IDENTIFIER IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
POLYTETRAFLUOROETHYLENE (PTFE):	RECOMMENDED FOR USE AT ELEVATED TEMPERATURES IN HYDROCARBON FUEL CONTAMINATED AREAS. ALSO RECOMMENDED FOR USE IN AREAS CONTAMINATED WITH PHOSPHATE TYPE HYDRAULIC FLUIDS AND OTHER SYNTHETIC LUBRICANTS. EXCELLENT OZONE RESISTANCE. COLOR SHALL BE SOLID BROWN.
FLUOROSILICONE:	RECOMMENDED FOR USE AT ELEVATED TEMPERATURES IN PETROLEUM BASED FLUID CONTAMINATED AREAS. NOT RESISTANT TO PHOSPHATE ESTER BASED FLUIDS. EXCELLENT OZONE RESISTANCE. COLOR SHALL BE SOLID BLUE.
NITRILE:	FOR USE PRIMARILY IN FUEL IMMERSION AND FUEL VAPORS. NOT RESISTANT TO PHOSPHATE ESTER BASED FLUIDS. GOOD OZONE RESISTANCE. NOT FOR USE WITH TITANIUM TUBING. COLOR SHALL BE SOLID YELLOW.
SILICONE:	RECOMMENDED FOR USE AT ELEVATED TEMPERATURE IN PHOSPHATE ESTER BASED FLUID AND OTHER SYNTHETIC FLUID CONTAMINATED AREAS. NOT RESISTANT TO PETROLEUM BASED FLUIDS. EXCELLENT OZONE RESISTANCE. COLOR SHALL BE SOLID (PIGMENTED) WHITE.
ETHYLENE PROPYLENE -	RECOMMENDED FOR USE IN AREAS CONTAMINATED WITH PHOSPHATE ESTER HYDRAULIC FLUID AND OTHER SYNTHETIC FLUIDS. EXCELLENT OZONE RESISTANCE. NOT RESISTANT TO PETROLEUM BASED FLUIDS. COLOR SHALL BE SOLID PURPLE

7. MATERIAL CODES.

CODES INDICATE BAND AND CUSHION MATERIALS. DO NOT SPECIFY BAND AND CUSHION COMBINATIONS NOT LISTED. MAXIMUM RECOMMENDED TEMPERATURE IS INDICATED IN PARENTHESIS.

DE = ALUMINUM BAND WITH ETHYLENE PROPYLENE CUSHION (100°C).
DF = ALUMINUM BAND WITH NITRILE CUSHION (100°C).
DG = ALUMINUM BAND WITH CHLOROPRENE CUSHION (100°C).
CE = CRES BAND WITH ETHYLENE PROPYLENE CUSHION (135°C)
CF = CRES BAND WITH NITRILE CUSHION (100°C)
CG = CRES BAND WITH CHLOROPRENE CUSHION (100°C)
CH = CRES BAND WITH SILICONE CUSHION (204°C).
CJ = CRES BAND WITH FLUOROSILICONE CUSHION (232°C).
CT = CRES BAND WITH PTFE CUSHION (260°C).

8. PART NUMBER. THE PART NUMBER SHALL CONSIST OF THE BASIC DS SHEET NUMBER, FOLLOWED BY THE CODE LETTER "W" FOR WEDGE (IF SPECIFIED), FOLLOWED BY A DASH NUMBER TAKEN FROM TABLE I, FOLLOWED BY NUMBER OF TUBES OR WIRE BUNDLES, FOLLOWED BY THE MATERIAL CODES

EXAMPLE: DS14272-223CF

- CF — MATERIAL CODE (SEE REQUIREMENT 7)
- 3 — NUMBER OF TUBES OR WIRE BUNDLES TO BE CLAMPED (2,3 OR 4).
- 23 — DASH NUMBER FROM TABLE I.
- W — REPLACE DASH WITH CODE LETTER "W" FOR WEDGE (IF SPECIFIED)
- DS14272 — BASIC DS SHEET NUMBER

DS14272W223CF - INDICATES CLAMP, LOOP, CUSHIONED, ELONGATED, FOR 22mm ØD TUBING OR WIRE BUNDLES, 3 TUBES OR BUNDLES, CRES BAND MATERIAL WITH NITRILE CUSHION MATERIAL.

DS14272W223CF - INDICATES CLAMP, LOOP, CUSHIONED, ELONGATED, WITH WEDGE, FOR 22 mm ØD TUBING OR WIRE BUNDLES, 3 TUBES OR BUNDLES, CRES BAND MATERIAL WITH NITRILE CUSHION MATERIAL

USER ACTIVITIES
NAVY - EC

REVIEWER ACTIVITIES
ARMY - AR, MI
NAVY - YD
AIR FORCE - 11
DLA - IS

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APPROVED 23 DEC 1983 REVISED

P A AS Other Cust AV 99	INTERNATIONAL INTEREST	TITLE CLAMP, LOOP, CUSHIONED ELONGATED, METRIC	MILITARY STANDARD DS 14272.
PROCUREMENT SPECIFICATION MIL-C-8603	SUPERSEDES:		PAGE 2 OF 3

FED SUP CLASS
5340

USER ACTIVITIES
NAVY-EC

REVIEWER ACTIVITIES
ARMY-AR, MI
NAVY-YD
AIR FORCE-11
DLA-IS

TABLE I. DASH NUMBERS AND DIMENSIONS.

DASH NO 1/	RIGID TUBE NOM ØD (INCREMENTS OF 2mm) (ØD)	F (SEE NOTE 5)	G	R	T (SEE NOTE 6)
4 THRU 16	4 THRU 16	ØD X NUMBER OF WIRE BUNDLES OR TUBES PLUS 10.0	1.6 + 0.4 0	1.6	0.8
18 THRU 32	18 THRU 32	ØD X NUMBER OF WIRE BUNDLES OR TUBES PLUS 12.5	2.4 + 0.8 0	3.2	1.3
34 THRU 64	34 THRU 64	ØD X NUMBER OF WIRE BUNDLES OR TUBES PLUS 13.5	2.4 + 0.8 0	3.2	1.6

1/ DASH NUMBERS TO BE SPECIFIED IN INCREMENTS OF 2

NOTES:

1. DIMENSIONS. DIMENSIONS ARE IN MILLIMETERS
2. TOLERANCES. UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE ±0.4 mm.
3. CLAMPS SHALL CHECK TO DIMENSIONS SHOWN IN TABLE I WITH ENDS HELD IN POSITION SHOWN
4. METAL BAND SHALL BE FREE OF BURRS AND SHARP EDGES.
5. TOLERANCES ON DIAMETERS (ØD) SHALL BE CONSIDERED AS NON-CUMULATIVE.
6. TOLERANCE ON THICKNESS OF BAND MATERIAL SHALL BE AS FOLLOWS:

   CRES. IN ACCORDANCE WITH ANSI/ASTM A109M-77
   ALUMINUM ALLOY IN ACCORDANCE WITH ANSI/ASTM H35.2M-78

7. EACH CLAMP SHALL BE PERMANENTLY AND LEGIBLY MARKED WITH THE MANUFACTURER'S NAME OR TRADEMARK AND THE COMPLETE DS PART NUMBER
8. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BIDS, OR REQUEST FOR PROPOSAL, EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED
9. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

APPROVED 23 DEC 1983 REVISED

P A	AS
Other Cust	AV
	99

INTERNATIONAL INTEREST

TITLE
CLAMP, LOOP, CUSHIONED ELONGATED, METRIC

MILITARY STANDARD
DS 14272

PROCUREMENT SPECIFICATION
MIL-C-8603

SUPERSEDES: