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INCH-POUND

NOTICE
OF REACTIVATION

MS20995E
NOTICE 3
20 August 1996

MILITARY STANDARD

WIRE, SAFETY OR LOCK

MS20995E, dated 20 December 1995, is hereby reactivated and may be used for either new or exiting design acquisition.

Custodians:
Army - AV
Navy - AS

Preparing Activity
DLA-IS

(Project 9505-0329)

AMSC N/A FSC 9505

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited

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MS20995E
NOTICE 2
20 Dec 1995

NOTICE OF INACTIVATION
FOR NEW DESIGN

MILITARY STANDARD

WIRE, SAFETY OR LOCK

This notice should be filed in front of MS20995E dated 30 Jan 90.

MS20995E, dated 30 Jan 90, is inactive for new design and is no longer to be used except for replacement purposes.

Custodians:
Air Force -99
Army - AV
Navy - AS

Preparing Activity:
Air Force - 84

Agent Activity:
Air Force - 99

FSC 9505

AMSC N/A

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J-11-28

INCH-POUND

NOTICE
OF VALIDATION

MS-20995E
NOTICE 1
30 Jan 90

MILITARY STANDARD
WIRE, SAFETY OR LOCK

MS-20995E, Dated 17 SEP 1974, has been reviewed and determined to be valid for use in acquisition.

Custodians:
Army - AV
Navy - AS
Air Force - 99

Preparing Activity
Air Force - 84

AMSC N/A FSC: 9505

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THIS DOCUMENT CONTAINS 1 PAGES.

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FED. SUP CLASS 9505

MATERIAL	E .015	.020	.031	.032	.040	.041	.047	.051	.091	NOTES
	FIRST DASH NO. (FOR MATERIAL AND WIRE DIA.)									
NI-CU ALLOY (MONEL)		NC20		NC32	NC40			NC51	NC91	(3)
NI-CR-FE ALLOY (INCONEL)		N20		N32	N40			N51	N91	(3)
CARBON STEEL ZINC-COATED		F20		F32		F41	F47		F91	
CORROSION-RESIST. STEEL	C15	C20		C32		C41	C47		C91	
ALUMINUM ALLOY (BLUE)		AB20		AB32		AB41	AB47		AB91	(3)
COPPER (YELLOW)	CY15	CY20								(3 & 4)

WIRE TOLERANCE SHALL BE IN ACCORDANCE WITH VALUES SPECIFIED IN THE APPLICABLE WIRE MATERIAL SPECIFICATION.

MATERIAL: (DESIGNATED BY PREFIX LETTER REPLACING DASH BEFORE FIRST DASH NUMBER)

* F - CARBON STEEL, ZINC-COATED, SPECIFICATION QQ-W-461, ANSI NUMBERS 1006, 1010, OR 1015, ANNEALED.

** C - CORROSION-RESISTANT STEEL, SPECIFICATION QQ-W-423, FORM I, COMPOSITION 302 OR 304, CONDITION A.

N - NICKEL-CHROMIUM-IRON ALLOY, SPECIFICATION QQ-W-390, TEMPER A, ANNEALED.

NC - NICKEL-COPPER ALLOY, SPECIFICATION QQ-N-281, CLASS A, FORM 7, ANNEALED.

* CY - COPPER, SPECIFICATION QQ-W-343, TYPE "S", ANNEALED, CADMIUM PLATED IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 2 (GOLDEN YELLOW).

** AB - ALUMINUM ALLOY WIRE 5056 ANODIZED, DYED BLUE IN ACCORDANCE WITH MIL-A-8625, TYPE I OR II, CLASS 2, COLOR EQUIVALENT TO NUMBERS 15102 OR 25102 IN ACCORDANCE WITH FED STD 595.

DASH NUMBERS INDICATE WIRE MATERIAL AND DIAMETER IN THOUSANDTHS OF AN INCH. ADDITIONAL DASH NUMBERS INDICATING LENGTH IN INCHES ARE FOR REFERENCE ONLY AND SHALL NOT BE USED FOR PROCUREMENT OR STOCKING.

WIRE SIZES .015 TO .041 INCH IN DIAMETER SHALL BE FURNISHED ON SPOOLS CONTAINING 1 TO 5 POUNDS EACH.
WIRE SIZE .047 TO .091 SHALL BE FURNISHED ON SPOOLS OR REELS CONTAINING 5 TO 10 POUNDS EACH.

EXAMPLES OF PART NUMBERS
MS 20995 CY20 - COPPER, CADMIUM PLATED, YELLOW, SHEAR OR SEAL WIRE, .020 DIA.
MS 20995 AB32 - ALUMINUM ALLOY, ANODIZED, BLUE, .032 DIA.

DIMENSIONS IN INCHES:

DESIGN AND USAGE LIMITATIONS (NOTES):
(1) FOR GENERAL PRACTICES FOR SAFETY WIRING, USE MS 33540.
(2) FOR LOCK WIRING OF TURNBUCKLES, USE MS 33591 AND MS 33736.
(3) INCONEL WIRE (UNCOATED) USE FOR GENERAL LOCK WIRE AT TEMPERATURES 700°F AND ABOVE. MONEL WIRE (UNCOATED) USE FOR GENERAL LOCK WIRE AT TEMPERATURES UP TO 700°F, COPPER (CY) WIRE USE FOR SHEAR OR SEALING WIRE, ALUMINUM ALLOY (AB) USE FOR LOCK WIRE WITH MAGNESIUM.
(4) CADMIUM PLATED COPPER IS NOT TO BE USED IN SPACE APPLICATIONS.

(E) ENTIRE STANDARD REVISED.

APPROVED 3 JAN 57 REVISED (E) 17 Sep 94

P.A. 84 Other Cust AS MU	TITLE WIRE, SAFETY OR LOCK	MILITARY STANDARD MS 20995	
PROCUREMENT SPECIFICATION NONE	SUPERSEDES AN995	SHEET 1 OF 2	

DD FORM 672-1 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

NOTICE—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have furnished, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

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

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FED. SUP CLASS 9505

SUPERSESSION TABLE:

MS 20995D PART NUMBER	MS 20995E SUPERSEDING PART NUMBER
CU20	CY20
AA20	AB20
A31	AB32 (OR AB31)
AA41	AB41
AA47	AB47
AA91	AB91
AA32	AB32

INTERCHANGEABILITY RELATIONSHIP:

FOR SAME DIAMETER AND LENGTH NI-CU ALLOY (MONEL) WIRE CAN BE SUBSTITUTED FOR CARBON STEEL AND CORROSION RESISTANT STEEL WIRE.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT OF DATE OF INVITATIONS FOR BID.

LOCK WIRE TO COMPLY WITH THIS STANDARD SHALL BE OBTAINED FROM STOCK IN ACCORDANCE WITH THE SPECIFICATIONS AS APPLICABLE.

THIS DOCUMENT HAS BEEN PROMULGATED BY THE DEPARTMENT OF DEFENSE AS A MILITARY STANDARD TO LIMIT THE SELECTION OF THE ITEM, PRODUCT, OR DESIGN COVERED HERE IN ENGINEERING, DESIGN, AND PROCUREMENT. THIS STANDARD SHALL BECOME EFFECTIVE NOT LATER THAN 90 DAYS AFTER THE LATEST DATE OF APPROVAL SHOWN.

* THESE ALLOYS ARE TO BE USED AS SAFETY WIRE.

** TO BE USED AS SAFETY WIRE OR LOCK WIRE ACCORDING TO NOTE (3).

(E) ENTIRE STANDARD REVISED.

APPROVED 3 JAN 57 REVISED (E) 17 Sep 74

NOTICE—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

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

P.A.	84	TITLE	MILITARY STANDARD
Other Cust	AS MU	WIRE, SAFETY OR LOCK	MS20995
PROCUREMENT SPECIFICATION	NONE	SUPERSEDES: AN 995	SHEET 2 OF 2

DD FORM SEP 67 672-1 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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