

MS20995 REV E NOTICE 3

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NOTICE
OF REACTIVATION

INCH-POUND

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

MS20995 REV E NOTICE 2 ■ 9999912 0088602 587 ■

**NOTICE OF INACTIVATION
FOR NEW DESIGN**

INCH-POUND

MS20995E
NOTICE 2
20 Dec 1995

**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

AMSC N/A

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

FSC 9505

MS20995 REV E VALID NOTICE 1 95

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J-11-28

**NOTICE
OF VALIDATION**

INCH-POUND

**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

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

THIS DOCUMENT CONTAINS 1 PAGES.

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A-4

MS20995 REV E 95 ■ 9999912 0085565 008 ■

J-11-28

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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.

FED. SUP CLASS
9505

MATERIAL	NOMINAL WIRE DIAMETER						NOTES		
	.015	.020	.031	.035	.040	.047		.051	.091
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-425, 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.

ENTIRE STANDARD REVISED.

APPROVED 3 JAN 57 REVISED E 17 SEP 74

P.A. 84	TITLE	MILITARY STANDARD MS20995
Other Cont AS MU	WIRE, SAFETY OR LOCK	
PROCUREMENT SPECIFICATION NONE	SUPERSEDED AN995	SHEET 1 OF 2

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

MS20995 REV E 95

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FED. SUP CLASS
9505

SUPERSESION 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 WIRP.

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

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

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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A-6

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