

FED. SUPPLY CLASS

9505

TABLE I – FIRST DASH NUMBERS FOR MATERIAL AND WIRE DIAMETER /2/

MATERIAL	ØE NOMINAL WIRE DIAMETER									
	.015	.020	.031	.032	.040	.041	.047	.051	.091	
	FIRST DASH NUMBER									
NICKEL-COPPER		NC20		NC32	NC40			NC51	NC91	/c/
NICKEL ALLOY		N20		N32	N40			N51	N91	/c/
CARBON STEEL, ZINC COATED		F20		F32		F41	F47		F91	
CRES	C15	C20		C32		C41	C47		C91	
ALUMINUM ALLOY (BLUE)		AB20		AB32		AB41	AB47		AB91	/c/
COPPER (YELLOW)	CY15	CY20								/c/ /d/

MATERIAL:

CARBON STEEL - 1006 (UNS G10060), 1010 (UNS G10100) OR 1015 (UNS G10150) PER SPECIFICATION QQ-W-461 ASTM A 641/A 641M, ZINC COATED, ANNEALED. /e/
 CRES - 302 (UNS S30200) OR 304 (UNS S30400) PER SPECIFICATION QQ-W-423 ASTM A580/A580M, FORM 1, CONDITION A. /f/
 NICKEL ALLOY - PER SPECIFICATION QQ-W-390 ASTM B166, TEMPER A, ANNEALED.
 NICKEL-COPPER - PER SPECIFICATION QQ-N-281, CLASS A, FORM 7, ANNEALED.
 COPPER - PER SPECIFICATION QQ-W-343 A-A-59551, TYPE "S", ANNEALED. /e/
 AI ALLOY - 5056 (UNS A95056). /f/

FINISH:

COPPER - CADMIUM PLATE IN ACCORDANCE WITH AMS-QQ-P-416, TYPE II, CLASS 2 (GOLDEN YELLOW).
 AI ALLOY - ANODIC COATING DYED BLUE IN ACCORDANCE WITH MIL-A-8625, TYPE I OR TYPE II, CLASS 2, COLOR EQUIVALENT TO NUMBERS 15102 OR 25102 IN ACCORDANCE WITH FED-STD-595.

CODE:

PREFIX LETTER REPLACING DASH BEFORE FIRST DASH NUMBER DESIGNATES MATERIAL:
 F = CARBON STEEL WIRE, ZINC COATED.
 C = CRES WIRE.
 N = NICKEL ALLOY WIRE.
 NC = NICKEL-COPPER WIRE.
 CY = COPPER WIRE.
 AB = AI ALLOY WIRE.

PART NUMBER EXAMPLE:

MS20995CY20 = COPPER SHEAR OR SEAL WIRE, Ø.020, CADMIUM PLATED, YELLOW.
 MS20995AB32 = ALUMINUM ALLOY WIRE, Ø.032, ANODIZED, BLUE.

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS20995, REVISION E. PART NUMBERS REMAIN MS20995.

THIRD ANGLE PROJECTION		CUSTODIAN		REVISION	
		NATIONAL AEROSPACE STANDARDS COMMITTEE		1	
		TITLE		CLASSIFICATION PART STANDARD	
PROCUREMENT SPECIFICATION		WIRE, SAFETY OR LOCK		ASM2095	
NONE				SHEET 1 OF 2	

NOTES:

- (1) WIRE TOLERANCE SHALL BE IN ACCORDANCE WITH VALUES SPECIFIED IN THE APPLICABLE WIRE MATERIAL SPECIFICATION.
- /2/ 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.
- (3) WIRE SIZE Ø.015 TO Ø.041 SHALL BE FURNISHED ON SPOOLS CONTAINING 1 TO 5 LBS EACH.
- (4) WIRE SIZE Ø.047 TO Ø.091 SHALL BE FURNISHED ON SPOOLS OR REELS CONTAINING 5 TO 10 LBS EACH.
- (5) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (6) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (7) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (8) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (9) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- (10) LOCK WIRE TO COMPLY WITH THIS STANDARD SHALL BE OBTAINED FROM STOCK IN ACCORDANCE WITH THE SPECIFICATION AS APPLICABLE.

DESIGN AND USAGE LIMITATIONS:

- (a) FOR GENERAL PRACTICES FOR SAFETY WIRING, USE NASM33540.
- (b) FOR LOCK WIRING OF TURNBUCKLES, USE MS33591 AND MS33736.
- /c/ NICKEL ALLOY WIRE (UNCOATED) USE FOR GENERAL LOCK WIRE AT TEMPERATURES 700 °F AND ABOVE. NICKEL-COPPER 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) WIRE USE FOR LOCK WIRE WITH MAGNESIUM.
- /d/ CADMIUM PLATED COPPER IS NOT TO BE USED IN SPACE APPLICATIONS.
- /e/ THESE ALLOYS ARE TO BE USED AS SAFETY WIRE.
- /f/ TO BE USED AS SAFETY WIRE OR LOCK WIRE ACCORDING TO NOTE /c/.

INTERCHANGEABILITY RELATIONSHIP:

FOR SAME DIAMETER AND LENGTH NICKEL-COPPER WIRE CAN BE SUBSTITUTED FOR CARBON STEEL AND CRES WIRE.

TABLE II – SUPERSESION

MS20995D PART NUMBER	MS20995E SUPERSEDING PART NUMBER
CU20	CY20
AA20	AB20
A31	AB32 (OR AB31)
AA41	AB41
AA47	AB47
AA91	AB91
AA32	AB32

REVISION

1

NASM20995

SHEET 2

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FORM 09-01